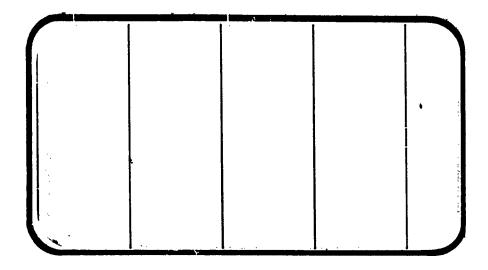


NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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(VASA-CF-144623) THRMINAL AREA EMERGY MANAGEMENT FEGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE MODUL (47-0) OF THE SPACE SHUMMI VEHICLE ORBITER CONFIGURATION 440A/C, C/E IN THE AMES RESEARCH CENTER 11 X G3/16

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SPACE SHUTTLE

MEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER

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TERMINAL AREA ENERGY MANAGEMENT
REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE
MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE
ORBITER CONFIGURATION 140A/B/C/R IN THE
AMES RESEARCH CENTER 11 X 11 FOOT
TRANSONIC WIND TUNNEL (0A148)

by

P. J. Hawthorne Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

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for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

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NASA Series Number:

0A148

Model Number:

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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

TERMINAL AREA ENERGY MANAGEMENT

REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE

MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE

ORBITER CONFIGURATION 140A/B/C/R IN THE

AMES RESEARCH CENTER 11 x 11 FOOT

TRANSONIC WIND TUNNEL (0A148)

by

P. J. Hawthorne, Rockwell International Space Division

ABSTRACT

This report documents data obtained in wind tunnel test OA148.

The objectives of the test series were to:

- 1) obtain pressure distributions, forces and moments over the vehicle 5 Orbiter in the terminal area energy management (TAEM) and approach phases of flight.
- 2) obtain elevon and rudder hinge moments in the TAEI and approach phases of flight.
- 3) obtain body flap and elevon loads for verification of loads balancing with integrated pressure distributions.
- 4) obtain pressure distributions near the short OMS pods in the high subsonic, transonic and low supersonic Mach number regimes.

Testing was conducted over a Mach number range from 0.6 to 1.4 with Reynolds number variations from 4.57 x 10^6 to 2.74 x 10^6 per foot. Model angle-of-attack was varied from -4 to 16 degrees and angles of side slip ranged from -8 to 8 degrees.

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PLOTTED COEFFICIENTS SCHEDULE:

- A) CY, CYN and CBL versus BETA
- B) CN, CA and CLM versus ALPHA
- C) CHEO, CHEI, CHETOT and CHBF versus ALPHA
- 0) CP versus X/LB
- E) CP versus X/CW
- F) CP versus X/CV

NOMENCLATURE

	Plot	
Symbol	Symbol	<u>Definition</u>
A_b	AB	total Orbiter base area, ft ²
Ai	Ai	area over which P _i acts, ft ²
A _{sb}	ASB	speed brake base area, ft ²
b	BREF, BW	Orbiter wing span, in
b _V	в٧	vertical tail reference span, in
$^{C}_{A_{u}}$	CAU	Orbiter uncorrected axial force coefficient
c _A	CA	Orbiter axial force coefficient with sting cavity adjusted to average base pressure
$c_{A_{F}}$	CAF	Orbiter forebody axial force coefficient.
C _{Asc}	CASC	Orbiter sting cavity axial force coefficient.
c_{D_U}	CDU	Orbiter uncorrected drag coefficient
$c_{h_{bf}}$	CHBF	body flap hinge moment coefficient, about hinge line $X_0 = 1532.0$
^C hei	CHEI	inner elevon hinge moment coefficient, about hinge line $X_0 = 1387.0$
^C heo	CHEO	outer elevon hinge moment coefficient, about hinge line $X_0 = 1387.0$
с _{Нетот}	CHETOT	total right elevon hinge moment coefficient
c_{L_U}	CLU	Orbiter uncorrected lift coefficient
C _£	CBL	Orbiter rolling moment coefficient, body axis system

NOMENCLATURE (Continued)

Symbol	Plot Symbol	Definition
C _m	CLM	Orbiter pitching moment coefficient with sting cavity adjusted to average base pressure, referenced to Orbiter MRC.
c_{m_u}	CLMU	Orbiter uncorrected pitching moment coefficient
$c_{m_{F}}$	CLMF	Orbiter forebody pitching moment coefficient referenced to orbiter MRC.
c _m sc	CLMSC	Orbiter sting cavity pitching moment coefficient, referenced to Orbiter MRC
c_{N_u}	CNU	Orbiter uncorrected normal force coefficient
C _N	CN	Orbiter normal force coefficient with sting cavity adjusted to average base pressure
$c_{N_{\overline{F}}}$	CNF	Orbiter forebody normal force coefficient
$c_{N_{SC}}$	CNSC	Orbiter sting cavity normal force coefficient
c _n	CYN	Orbiter yawing moment coefficient, body axis system
C _{pi}	CPi	surface tap pressure coefficient, port i, $(P_1 - P_{\infty})/q$
Сү	CY	Orbiter side force coefficient
c[x][x]	c[x][Y]	base area force and moment coefficients. The first subscript (post fix) designates the type of coefficient, the second the pressure tap and it's associated area. The symbolic
[X]	2	vectors [X] and [Y] are defined below.
A N Y m n	A N Y LM YN BL	axial force normal force side force pitching moment yawing moment rolling moment

NOMENCLATURE (Continued)

Symbo1	Plot Symbol	Definition
[Y]	=	
1,2,3 4,5,6 sc bf	1,2,3 4,5,6 SC BF	areas associated with pressure taps 1 through 6 see figure 2b sting cavity area upper body flap area
1 _b	LB	Orbiter reference body length, IML nose to $X_0 = 1528.3$, in.
^L REF	LREF	longitudinal reference length, Orbiter mean aerodynamic chord, in
	LU/DU	uncorrected lift to drag ratio, CLU/CDU
M	MACH	freestream Mach number
Φ	PHI	angular cylindrical coordinate position around Orbiter body - deg.
Pi	Pi	pressure at surface tap i, PSF
P _∞	Р	freestream static pressure, PSF
Pt	PT	freestream total pressure, PSF
q	Q	freestream dynamic pressure, PSF
	RN/L	unit Reynolds number, million per foot
S	SREF	wing reference area, ft ²
Tt	TTR	freestream total temperature, °R
Х _{ср}	XCP/L	center of pressure location referred to $l_{\mbox{\scriptsize b}}$
x_o/L_o	X/LB	longitudinal location of body surface, fraction of body length

NOMENCLATURE (Concluded)

Symbol .	Plot Symbol	Definition
4 /C	X/CW	chordwise location on wing surface, fraction of local chord
X/C _V	X/CV	chordwise location on vertical tail, fraction of local chord
^η ν	Z/BV	spanwise location on vertical tail, fraction of vertical tail span
ŋ	2Y/BW	spanwise location on wing, fraction of semi span
X _{mrp}	XMRP	longitudinal location of moment reference point
ХТ	хт	longitudinal moment transfer distance from Orbiter balance center to Orbiter MRC, in
Ymrp	YMRP	lateral location of moment reference point
z _T	ZT	vertical moment transfer distance from Orbiter balance center to Orbiter MRC, in
CI.	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
$^{\delta}$ bf	BDFLAP	body flap deflection, degrees
δ _{eL}	ELVN-L, L-ELVN	left elevon deflection, degrees
δeR	ELVN-R, R-ELVN	right elevon deflection, degrees
δ _r	RUDDER	rudder deflection, degrees
δsb	SPDBRK	speed brake deflection, degrees
Z _{mrp}	ZMRP	vertical location of moment reference point
	\$\$	mask character used to indicate all possible values for this test 01 through 85

REMARKS

During the course of the test it was necessary to replumb the scanivalves. The resultant time loss necessitated deleting the priority 4 runs which incorporated the use of the metric vertical tail.

Data obtained from pressure taps 184, 296 and 347 are suspect due to slow leaks noticed while leak checking individual model pressure taps.

Body flap hinge moment data for datasets RE8001 through RE8005 have a -15% drift while datasets RE8006 and RE8007 have a +10% drift due to data recording system errors. System checks during the remainder of the test indicate a system error of less than 4% for body flap hinge moment described.

Rolling moment data has an approximate -.003 bier - coerceient. The reason for this was not determined, but politics sources are fabrication tolerances and/or differential stiffness of the left and right elevon panels.

Distortion of the instrumented elevon shaft appears to have occurred around run 310 due to model assembly difficulties and the maximum loads encountered at these test conditions. A comparison of measured elevon deflection before and after the test with the nominal setting is presented below:

Elevon Panel	Nominal Nominal	Pre-Test	Post-Test
Inboard right	-10 -4 0 4	-9° 36' -3° 34' +0° 10' +4° 26'	-8° 55' -2° 55' +1° 02' +4° 28'
Outboard right	\begin{cases} -10 \\ -4 \\ 0 \\ 4 \\ 10	+10°32' -9° 36' -3° 34' +0° 10' +4° 26' +10°32'	+10°39' -8° 15' -2° 20' +1° 05' +3° 59' +10°18'

^{*} Inboard only was measured but was the same as outboard panel(see Ref 2)

CONFIGURATION INVESTIGATED

The Rockwell International model 47-0 Space Shuttle Orbiter Vehicle was utilized in this test series. The model was originially constructed to -140A/B lines, but was modified prior to this test with the addition of the -1÷0C OMS pods, six inch bevelled interpanel elevon gaps and uncovered RCS forward thrustor parts. To denote these additions, the additional designations "C" (for -140C OMS pods) and "R" (for RCS thrustors) were added, and the slashes deleted for convenience on Table II(designated "-140 ABCR").

In data sets RE8069 to 085 the RCS thrustor ports in the nose were filled reverting the configuration to -140A/B/C modified with body $^{\rm B}26^{\circ}$

The following nomenclature denotes the model components:

Component	Description
^B 26	140A/B fuselage (VL70-000140A, VL70000140B)
B ₇₀	140A/B fuselage (Vi70-000140A, VL70-000145, VL70-000140B, VL70-000143A, VL70-000139) with RCS thrustor parts (VL70-08501, VL70-08502, VL70-08296)
c ₉	140A/B basic canopy (VL70-000140A, VL70-000143A)
E ₄₄	140A/B elevons (VL70-000200, VL70-006089, VL70-006092) with six inch bevelled interpanel gaps, no flipper door
F ₉	140A/B body flap (VL70-000140B, VL70-000200)
^M 16	OMS-RCS pods for 140C Orbiter
N ₂₈	OMS basic nozzles
R ₅	basic Orbiter rudder (VL ⁷ 0-000146A, VL70-000095)
ν ₈	basic Orbiter vertical tail (VL70-000140A, VL70-000146A)
W ₁₁₆	basic 140A/B wing (VL70-000140B, VL70-000200)

CONFIGURATIONS INVESTIGATED (Concluded)

Designated configurations are:

-140ABCR = B_{70} C_{9} E_{44} F_{9} M_{16} N_{28} R_{5} V_{8} W_{116}

-140 ABC = B_{26} C_{9} E_{44} F_{9} M_{16} N_{28} R_{5} V_{8} W_{116}

TEST FACILITY DESCRIPTION

The Ames Research Center Unitary Plan 11- by 11-Foot Transonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 0.6 to 1.4 at Reynolds numbers from 1.7 x $10^6/\mathrm{ft}$ to 9.4 x $10^6/\mathrm{ft}$. The test section is 22 fect long, and models are installed on internal strain-gauge balances mounted to sting-type support systems.

Shadowgraph and Schlieren photographic equipment is available, and pressure transducer instrumentation is provided.

Tunnel operating temperature is 580°R. Extended high Reynolds number runs are restricted by power availability.

DATA REDUCTION

Standard NASA/Ames data reduction equations were used to reduce forces, moments, and pressures to coefficient form. Orbiter main balance force and moment coefficients were computed using the following equations:

	Symbol Symbol	Orbiter main balance measurement
	NF AF PM YM SF RM	Normal Force Axial Force Pitching Moment Yawing Moment Side Force Rolling Moment
c _{Au} =	AF / (q S)	$C_{L_{u}} = C_{N_{u}} \cos \alpha - C_{A_{u}} \sin \alpha$
c _{Nu} =	NF / (q S)	$C_{D_u} = C_{N_u} \sin \alpha + C_{A_u} \cos \alpha$
C _Y =	SF / (q S)	
c _{mu} =	$\frac{PM}{qS_C} + \frac{C_A \cdot Z_T}{c} -$	$\frac{c_N \cdot x_T}{c}$
C & =	$\frac{R M}{qS_b} + \frac{C_{\gamma} \cdot Z_{T}}{b}$	Moment Transfer Distances
c _n =	$\frac{\gamma_{M}}{qS_{b}} - \frac{C\gamma \cdot \chi_{T}}{b}$	X _T = 0.572 in. Y _T = 0 Z _T = 0.450 in.

The Moment Reference Center about which the data was reduced is located at

Balance coefficients were grouped into datasets RE80\$\$.

Hinge moments and hinge moment coefficients were computed using the following equations:

Elevon hinge moments (inboard and outboard).

 $HM_{e_1} = (HM1-HM2) (M1/D1) + HM1$

 $HM_{eo} = (HM3-HM4) (M3/D3) + HM3$

where

HMi = measured moment on strain gage i

D1 = distance between gages 1 and 2, .49335 in.

D3 = distance between gages 3 and 4, .45800 in.

M1 = moment transfer distance for inboard elevon, .93825 in.

M3 = moment transfer distance for outboard elevon, .92250 in.

Elevon hinge moment coefficients

Inboard, $C_{H_{e_I}} = H_{M_{e_I}} / (q S_e c_e)$

Outboard, $C_{H_{eo}} = H_{M_{e_o}} / (q S_e c_e)$

Total, $c_{H_{e_{TOT}}} = c_{H_{e_I}} + c_{H_{e_o}}$

 S_e = elevon reference area, 0.189 ft.²

 c_e = elevon reference MAC, 2.721 in.

Body flap hinge moment coefficient

 $C_{H_{bf}} = HM_{bf} / (q S_{bf} c_{bf})$

HMbf = measured body flap hinge moment

 S_{bf} = body flap reference area, 0.12834 ft.²

 c_{bf} = body flap reference MAC, 2.541 in.

Hinge moment coefficients are part of datasets RE8X\$\$.

Pressure coefficients for all model orifice pressure measurements were computed using this equation:

$$C_{P_i} = (P_i - P_{\infty})/q$$

where P_i = pressure at model orifice i

 P_{∞} = tunnel static pressure

q = tunnel dynamic pressure

Other data reduction constants include:

 $S = wing reference area, 2.4210 ft.^2$

c = wing reference chord, 14.2443 in.

b = wing reference span, 28.1004 in.

After the data had been reduced to coefficient form by NASA/AMES,DMS interpolated it to nominal α 's and β 's. Then 2 types of base and sting cavity area coefficients were calculated. When they are applied 3 types of balance coefficient data exists. These can be distinguished by the last subscript (symbolic name) or postfix (mnemonic name). The key is given below

- U ~ uncorrected coefficients.
 - coefficients with sting cavity pressure corrected to base pressure (without a suffix).
- F ~ forebody coefficients with the base area pressure corrected to freestream pressure.

Only the correction coefficients associated with base pressure tapes 1 through 4 were applied to the longitudinal orbiter coefficients.

Figure 2b illustrates the base area associated with each pressure tap. Alphabetic characters bf and sc designate body flap and sting cavity areas, respectively. Base area coefficient names have a numeric character which designates the pressure tap number. Base coefficients for vertical tail areas 5 and 6 were calculated but not applied to the total orbiter coefficients. Base area coefficient values are tabulated in the appendix. A detailed derivation of these coefficients follows. It is concluded by a matrix of base area geometric properties.

The orbiter sting cavity force and moment coefficients were computed as:

$$C_{A_{SC}} = \frac{(C_{p2} - C_{p1})}{S}^{A_1}$$

$$C_{N_{SC}} = \frac{(C_{p2} - C_{p1})}{S}^{A_1} \tan 12.55^{\circ}$$

$$C_{m_{SC}} = C_{A_{SC}} \frac{Z_t}{C} - C_{N_{SC}} \frac{X_{SC}}{C}$$

The orbiter force and moment coefficients corrected for the difference between balance cavity pressure and orbiter base pressure:

$$C_{A} = C_{A_{u}} - C_{A_{SC}}$$

$$C_{N} = C_{N_{u}} - C_{N_{SC}}$$

$$C_{m} = C_{m_{u}} - C_{m_{SC}}$$

These orbiter coefficients are part of datasets KE80\$\$.

Orbiter base force and moment coefficients were calculated as follows:

Upper base area

$$C_{N2u} = -(C_{p2} A_{2u} \tan 16^{\circ})/S$$

$$C_{A2u} = -(C_{p2} A_{2u})/S$$

$$C_{m2u} = \frac{C_{A2u}}{c} \frac{Z_{2u}}{c} - \frac{C_{N2u}}{c} \frac{X_{2u}}{c}$$

Lower base area

$$C_{N2_{\ell}} = -(C_{p2} A_{2_{\ell}} \tan 10^{\circ})/S$$

$$C_{A2_{\ell}} = -(C_{p2} A_{2_{\ell}})/S$$

$$C_{m2_{\ell}} = C_{A2_{\ell}} \frac{Z_{2\ell}}{c} - C_{N2_{\ell}} \frac{X_{2\ell}}{c}$$

Total base area, A₂

$$c_{N2} = c_{N2u} + c_{N2g}$$

$$c_{A2} = c_{A2_u} + c_{A2_\ell}$$

$$C_{m2} = C_{m2_{11}} + C_{m2_{2}}$$

OMS pod base area, A3

(This assumes the surface is perpendicular to the orbiter X-axis)

$$C_{A3} = -(C_{p3} A_3)/S$$

$$C_{m3} = C_{A3} \frac{Z_3}{c}$$

OMS pod base area, A₄

(This assumes the surface is perpendicular to the orbiter X-axis)

$$C_{A4} = -(C_{p4} A_4)/S$$

$$C_{m4} = C_{A4} \frac{Z_4}{S}$$

Coefficients for the above areas are grouped into datasets EE8D\$\$.

Upper surface of body flap

$$C_{A_{bf}} = \frac{-C_{p_{bf}} \frac{A_{bf}}{S} \sin (\delta_{bf} + 6.88^{\circ})}{S}$$

$$C_{N_{bf}} = \frac{-C_{p_{bf}} \frac{A_{bf}}{S} \cos (\delta_{bf} + 6.88^{\circ})}{S}$$

$$C_{m_{bf}} = \frac{C_{A_{bf}} \frac{Z_{bf}}{C}}{C} - \frac{C_{N_{bf}} \frac{X_{bf}}{C}}{C}$$

where:

$$C_{pbf} = \frac{C_{p200} + C_{p201} + C_{p204} + C_{p205}}{4}$$

The orbiter force and moment coefficients adjusted to free stream pressure (forebody coefficients).

$$C_{A_{F}} = C_{A_{U}} - \left(\frac{-C_{p1}}{S} \frac{A_{1}}{i} + \sum_{i=2}^{4} C_{A_{i}} + C_{A_{b}f}\right)$$

$$C_{N_{F}} = C_{N_{U}} - \left(C_{N_{2}} + C_{N_{b}f}\right)$$

$$C_{mF} = C_{mU} - \left(\sum_{i=2}^{4} C_{m_{i}} + C_{m_{b}f}\right)$$

These orbiter coefficients are part of datasets KE80\$\$.

Vertical tail "undercarriage" area, A5

Top Segment:

$$C_{N5t} = (C_{p5} A_{5t} tan 63.75^{\circ})/S$$

$$C_{A5t} = - (C_{p5} A_{5t})/S$$

$$C_{m5t} = C_{A5t} \frac{Z_{5t}}{c} - C_{N5t} \frac{X_{5t}}{c}$$

Middle Segment:

1.

$$C_{N5m} = (C_{p5} A_{5m} \tan 26.1426^{\circ})/S$$

$$C_{A5m} = - (C_{p5} A_{5m})/S$$

$$C_{m5m} = C_{A5m} \frac{Z_{5m}}{c} - C_{N5m} \frac{X_{5m}}{c}$$

Bottom Segment:

$$C_{N5b} = (C_{p5} A_{5b} tan 21.94^{\circ})/S$$

$$C_{A5b} = - (C_{p5} A_{5b})/S$$

$$C_{m5b} = C_{A5b} \frac{Z_{5b}}{c} - C_{N5b} \frac{X_{5b}}{c}$$

Total area, A₅:

$$C_{N5} = C_{N5t} + C_{N5m} + C_{N5b}$$

$$C_{A5} = C_{A5t} + C_{A5m} + C_{A5b}$$

$$C_{M5} = C_{m5t} + C_{m5m} + C_{m5b}$$

Vertical Tail base area, A₆:

Segment above rudder

$$C_{N6u} = (C_{p6} A_{6u} tan 63.75^{\circ})/S$$

$$C_{A6u} = (C_{p6} A_{6u})/S$$

$$c_{m6u} = c_{A6u} \frac{z_{6u}}{c} - c_{N6u} \frac{x_{6u}}{c}$$

Rudder/Speed brake base:

$$C_{A6_{\ell}} = C_{P6} A_{6_{\ell}} [sin (\theta-55.1667^{\circ}) cos 55.1667^{\circ} + cos (\theta -55.1667^{\circ}) sin 55.1667^{\circ} cos (\delta r)]/S$$

$$C_{N6_{\ell}} = C_{p6} A_{6_{\ell}} [sin (\theta - 55.1667^{\circ}) sin 55.1667^{\circ} - cos (\theta-55.1667^{\circ}) cos 55.1667^{\circ} cos (\delta r)]/S$$

$$C_{Y6_{\ell}} = C_{p6} A_{6_{\ell}} cos (\theta -55.1667^{\circ}) sin \delta r/S$$

$$C_{M6_{\ell}} = [C_{A6_{\ell}} (Z_{6_{\ell}}) - C_{N6} (X_{6_{\ell}})]/C$$

$$C_{\ell} = [C_{Y6_{\ell}} (Z_{6_{\ell}})]/b$$

$$C_{n6_{\ell}} = [C_{Y6_{\ell}} (X_{6_{\ell}})]/b$$

$$C_{n6_{\ell}} = -[C_{Y6} (X_{6_{\ell}})]/b$$

$$A_{6_{\ell}} = A_{6_{\ell}}/sin \theta$$

Total area, A6:

$$C_{A6} = C_{A6u} + C_{A6k}$$
 $C_{N6} = C_{N6u} + C_{N6k}$
 $C_{Y6} = C_{Y6k}$
 $C_{m6} = C_{m6u} + C_{m6k}$

 $c_{\ell 6} = c_{\ell 6\ell}$

 $C_{n6} = C_{n6_{\ell}}$

Vertical tail area coefficient data are grouped into datasets GE8D\$\$.

BASE GEOMETRIC PROPERTIES MATRIX

			Distance between	Distance between Centroid and MRC
Decription	Sub- script	Area A - ft. ²	vertical Z ~ in.	longitudinal X ~ in.
	SC	0.076699	0.45	12.199
Sting cavity	þŧ	0.128	- 2.64	13.659
Body Tiap upper surface	_	0.076699	0.45	12.199
Orbiter base orifice 2 lower	28	0.133889	- 1.32	12.617
	2n	0.0818055	2.07	12.384
	က	0.030472	2.68	NA
Lower ONS pod	4	0.074166	3.63	NA
Upper one poc Ventical tail "undercarriage" bottom	5b	0.003565	4.612	12.395
Vertical tail "undercarriage" middle	5	0.002610	5.336	14.079
Vertical tail "undercarriage" top	5 t	0.000341	5.97	15.185
Vertical tail above rudder	n 9	0.000798	12.656	18.482
Base area of speed brake	79	Varies with	Varies with speed brake deflection	ion

NOTES: Sting cavity and Orbiter balance cavity are synonymous. NA - not applicable.

ńsh	$A6_{g}$ ft ²
0 25 35 55 85	0.0066036 0.0456000 0.0621000 0.0950800 0.1551400
x _{6e} =	15.045 + 1.442277 [1-cos (6sb/2)]
Z ₆ 2 =	9.755 + 0.501827 [1-cos (&sb/2)]

Standard DMS loads cycle test procedures were used to process the OA148 pressure data. First numerous pressure distribution plots were released. Analysis of these produced bad pressure data list. This list is reproduced below:

OA148 Bad Pressure Data

Component	Dataset No.	Tap <u>No.</u>	£	ā
Fuselage (B)	1 1 1 1 1 1	143 148 150 152 186 187 189 191	4 4 4 4 4 4	4 4 4 4 4 4
Lower Wing (L)	1 + 7 1 + 85 1 1 1 1 1 1 1	231 290 316 317 337 338 358 378 379 398	ALL 4 4 4 4 4 4	ALL -4 -4 -4 -4 -4 -4
Upper Wing	1 + 7 1	247 357	ALL 4	ALL -4
Body Flap (F)	24	205	-4	12
Speed Brake (K)	1 + 85	822	ALL	ALL
Vertical Tail (V)	8 ALL 79 79	443 1444 1453 1454	ALL ALL -4 -4	ALL ALL -4 -4

Note: Wind tunnel pressure data tabulated in the appendix have the original bad data values.

These points were eliminated from further processing. The remaining data were interpolated to nominal alpha and beta values. Processing was completed with the release of a magnetic tape containing the final interpolated pressure coefficients.

This report contains plots and tabular listings for both force and pressure data. Plotted force data illustrates lateral-directional, longitudinal and hinge moment characteristics of the configuration tested. Plotted pressure data illustrates the effect of several control deflections and attitude changes on local pressure distributions. The multiple volume appendix contains a tabulated listing of the basic force and pressure data. Listing of the interpolated base area coefficients is also included. The plotted and tabulated data are arranged in the following manner:

VOLUME NO. CONTENTS

1 Force data plots showing lateral-directional longitudinal and hinge moment characteristics.

2 Plots illustrating the effect of control surface deflections on fuselage, wing and vertical tail

pressure distributions.

DATA REDUCTION (Concluded)

VOLUME		0017717
NO.		CONTENTS
3	Tabulated	Force Data
	<u>Dataset</u>	Data type
	RE80\$\$	source balance coefficients
	RE8X\$\$	source hinge moment coefficients
	RE8Y\$\$	source base pressure coefficients
	KE80\$\$	interpolated balance coefficients adjusted for cavity pressure and forebody coefficients
	EE8D\$\$ FE8D\$\$	interpolated base and cavity area coefficients
	GE8D\$\$	interpolated vertical tail base area coefficients

Tabulated Pressure Data

	Component	Fourth Character*	<u>Page</u>
4, 5	orbiter fuselage	В	1
6,7,8	lower wing	L	1271
9,10,11	upper wing	U	3147
12 12	upper body flap lower body flap	F G	5405 5774
13 13	speed brake vertical tail	К V	6143 6547

^{*} The fourth character in each dataset identifier (i.e., XE8BXX, B for Fuselage) represents the individual component.

REFERENCES

- 1. SD75-SH-0106, "Pretest Information for OA148 of the 0.03-Scale 47-0 Pressure Loads Space Shuttle Model in the 11 x 11 Foot Leg of the NASA/ARC Unitary Plan Wind Tunnel," April 18, 1975.
- 2. MG-75-07-11, Rockwell International Corporation Internal Letter: "Model design Dimensional Varification Task 36: Elevon Deflection Angle Check of the 0.03-Scale SSV Model 47-0 (140A/B Configuration)". SAS/WT0/75-283, July 29, 1975.

TEST : OA148			DATE \$ May 1975
	TEST C.O	NDITIONS	
MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	4.57 x 10 ⁶	4.166	120
0.90	3.41×10^6	4.166	120
1.10	3.05×10^6	4.166	120
1.25	2.86×10^6	4.166	120
1.40	2.74×10^6	4.166	120
BALANCE UTILIZED:	ARC Task MK XX	Δ	
	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	3000 1bf/gage		
SF	1500 1bf/qage		
AF	_600_1bf		
PM	27.000 in-1bf		
RM	4000 in-1bf		
YM	10,500 in-1bf		
COMMENTS: Maximappli	um normal and side fo	orce dependent upon	point of
	27		

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TABLE 11.

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TABLE II. - Concluded.

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TABLE III MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - BOX		nn-annanganiladiya haras kilkaras - vardiladig
GENERAL DESCRIPTION : Configuration	140A/B orbiter i	uselage
NOTE: B26 is identical to B21 except u	nderside of fuse	lage has been
refaired to accept W116.		
MODEL SCALE: 0.030 MODEL	DRAWING: SS-ACC	147, Release 12
DRAWING NUMBER:VL70=000143B, =0002 VL70=000140A, =0001		6089, -000145.
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (OMI: Fwd Sta. $X_0 = 235$) Length (IML: Fwd Sta $X = 238$),		38.799 38.709
Max Width (@ $X_0 = 1528.3$), In.	264.0	7.920
Max Depth ($\omega X_0 = 1464$), In.	250.0	7.500
Fineness Ratio	0.264	0.264
Area - Ft ²		
Max. Cross-Sectional	340.88	0.3068
Planform		
Wetted		
Base		

TABLE III (Continued)

MODEL COMPONENT : BODY - B70		
GENERAL DESCRIPTION : Configurat	tion 140A/B orbit	er fuselage with
forward fuselage RCS thruster ports,	otherwise B70 is	identical to
B ₂₆ .		
MODEL SCALE: 0.030		
DRAWING NUMBER: <u>VL70-000140A</u> , -000 VL70-000205, -0060	140B, -000143B, 89, -008501, -008	<u>-000145, -00020</u> 0 8502, -008296
DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta X_0 =235), Length (IMI: Fwd Sta X_0 =238),	In. 1293.3 In-1290.3	38.799 <u>38.709</u>
Max Width (@ $X_0 = 1528.3$), In.		7.920
Max Depth ($@X_0 = 1464$), In.	250.0	7.500
Fineness Ratio	0.264	0.264
Area - Ft ²		
Max. Cross-Sectional	340.88	0.3068
Planform		
Wetted		
Base		

MODEL COMPONENT : CANOPY - C	A second control of the control of t	
GENERAL DESCRIPTION: Configuration 3	A. Canopy used	
MODEL SCALE: 0.030 MODEL DWG: DRAWING NUMBER: VI.70-000143A	-	
DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X ₀ =434.643 to 578), In.	_143.357	4.301
Max Width (@ $X_0 = 513.127$), In.	152.412	4.572
Max Depth (@ $X_0 = 485.0$), In.	25.00	0.750
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform	-	
Wetted		
Base		

MODEL COMPONENT ELEVON - E.	*	
GENERAL DESCRIPTION 6.0 In. F.S.	gaps machined in	to E _{ov} eleven.
Flipper doors centerbody pieces, and	tipneals are not	nimula tod
(Data are for one of two sides.)	करण प्राप्त के देव प्राप्तिक के विकास कर्मा प्राप्तिक के प्राप्तिक के प्राप्तिक के प्र ाप्तिक के प्राप्तिक	COLUMN TO SEE SEE COMMENSAGE COMMENSAGE COM
MODEL SCALE: 0.030	1	
DRAWING NUMBER		
DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft ²	210.0	0.189
Span (equivalent) , In.	349.2	10.476
Inb'd equivalent chord, In.	118.0	3.54
Outb'd equivalent chord, In.	55.19	_1.656
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2096	0.2096
At Outh'd equiv. chord	0.4004	0.4004
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	- 10.056	- 10.056
Hingeline	0.0	0.0
(Product of Area & c) Aten Moment (blazzoobaadoogedexe), Ft	31587.25	0.0429
Mean Aerodynamic Chord, In.	90.7	2.721

MODEL COMPONENT : BODY FLAP - F.	9	
GENERAL DESCRIPTION :Configura	tion 140A/B	-
MODEL SCALE: 0.030		
DRAWING NUMBER: VL70-000140B, -	000200	
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (Chord), In.	84.7	2.541
Max Width , In.	262.308	7.869
Max Depth , In.	23.00	0.690
Fineness Ratio		
Area - Ft ²		-
Max. Cross-Sectional	Colored to the second to the 	
Planform	142.60	0.128
Wetted		
Base	41.90	0.0377

MODEL COMPONENT : CMS POD - M16		
GENERAL DESCRIPTION : Configuration	1400 orbiter OMS	pod - short pod
External contour is to referenced draw	vings with 1/2" a	dded to simulate
TPS.		
MODEL SCALE: 0.015		
DRAWING NUMBER:VL70-00840100841	LO	
DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta X _O =1310.5)),In. 258.50	7.755
Max Width (@ $X_0 = 1511$), In.	136.8	4.104
Max Depth (@ $X_0 = 1511$), In.	74.70	2.241
Fineness Ratio	2.484	2.484
Area - Ft ²		•
Max. Cross-Sectional	58.865	0.053
Planform		
Wetted		
Base	4	

MODEL COMP		MS Nozzles	- N ₂₈	(oono u)		•
GENERAL DE	SCRIPTION	: Con	figuration	LAQA/B or	biter OMS no	zzles.
MODEL SCAL	E: 0.0	30				
DRAVING NU	MBER:	VL70-0001/	OA (Locat	ion), SS-A	00106 Releas	se 9 (Contour)
DIMENSIONS					FULL SCALE	MODEL SCALE
MACH N	o.		•			
Th Diamete Ex Th	mbal Poin roat to E er - In. it roat	t to Exit 1 xit Plane	Pl.ane			
Area - Ex						
Gimbal Left	Point (S-Nozzle	tation) ·]	īn.		1518.0 - 88.0 - 492.	45.54 - 2.64 - 14.76
Right	Nozzle XO YO ZO				1518.0 88.0 492.0	45.54 2.64 14.76
Null Po Left	Nozzle Pitch Yaw				15°49' 12°17'	<u> 15°49'</u> <u> 12°17'</u>
Right	Nozzle Pitch Yaw	•			15°49' 12°17'	15%91

MODEL COMPONENT RUDDER - R.		
GENERAL DESCRIPTION Configuration	n 1400 orbiter ru	dder (identical to
configuration 140A/B rudder).		
MODEL SCALE: 0.030		
DRAWING NUMBER VL70-000146B, -000	095	
DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft ²	_100.15	0.090
Span (equivalent), In.	201.00	
Inb'd equivalent chord , In.	91.585	6.030
Outb'd equivalent chord, In.	50.833	2.748
Ratio movable surface chord/ total surface chord		1.525
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Trailing Edge	26.25	26.25
Hingeline	_34.83	34.83
(Product of area & c) Area Moment (Monochas das poticies), F		0.0165
Mean Aerodynamic Chord, In.	73.2	2.196

MODEL COMPONENT: VERTICAL - V8		
GENERAL DESCRIPTION: Configuration 140C orb	iter vertical te	il
(Identical to configuration 140A/B vertical t	ail.)	neta essape estantidado netificialm (p) esse asucen
MODEL SCALE: 0.030		
DRAWING NUMBER: VL70-000140C, -000146B	anteksika manishkadan me-angalan terminikan perumana 1986.	
DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft ² Planform Span (Theo) - In. Aspect Ratio Rate of Taper Taper Ratio Sweep-Back Angles, Degrees. Leading Edge Trailing Edge Trailing Edge O.25 Element Line Chords: Root (Theo) WP Tip (Theo) WP MAC Fus. Sta. of .25 MAC W.P. of .25 MAC	413.253 315.72 1.675 0.507 0.404 45.000 26.25 41.13 268.50 108.47 199.81 1463.35 635.52	0.372 9.472 1.675 0.507 0.404 45.000 26.25 41.13 8.055 3.254 5.994 43.901 19.066
B.L. of .25 MAC Airfoil Section Leading Wedge Angle - Deg. Trailing Wedge Angle - Deg. Leading Edge Radius	10.0 14.92 2.0	10.0 14.92 0.060
Void Area	13.17	0.0019
Blanketed Area	0.0	

MODEL COMPONENT: WING-W116		
GENERAL DESCRIPTION: Configuration 4		
NOTE: Identical to W11, except airfoil thickness.	Dihedral angle	is along
trailing edge of wing.		
MODEL SCALE: 0.030		
TEST NO.	DWG. VL7	0-000140A0002
DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft2	2690.00	2.421
Planform Span (Theo In.	936.68	28.10
Aspect Ratio	2.265	2,265
Rate of Taper	1,177	1.177
Taper Ratio	0.200 3.500	0.200 3.500
Dihedral Angle, degrees Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees		
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
0.25 Element Line	35.209	35.209
Chords: Root (Theo) B.P.O.O.	689.24	20.677
Tip, (Theo) B.P.	137.85	4.136
MAC	474.81	14.244
Fus. Sta. of .25 MAC	1136.83	34.105
W.P. of .25 MAC	290.58 182.13	<u>8.717</u> 5.464
B.L. of .25 MAC		
EXPOSED DATA Area (Theo) Ft2	1751.50	1.576
Area (Theo) Ft Span, (Theo) In. BP108	720.68	21.620
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords	r/ n . n n	3/ 0/0
Root BP108	562.09 137.85	. 16.863
Tip 1.00 $\frac{b}{2}$		
MAC	392.83	$\frac{11.785}{35.579}$
Fus. Sta. of .25 MAC	1185.98 295.30	8.829
W.P. of .25 MAC B.L. of .25 MAC	251.77	7.555
Airfoil Section (Rockwell Mod NASA)		
XXXX-64	0.110	0.112
Root b =	0.113	0.113
74- 6-	0.120	0.120
Tip <u>b</u> =		
Data for (1) of (2) Sides		
Leading Edge Cuff 2	an striktimitalisma	
Planform Area Fth	113.18	0.102
Leading Edge Intersects Fus M. L. @ Sta	<u>500.0</u> 1025.0	15.0
loadirá Edge Intersects Wing @ Sta	AUK) . U	30.720

TABLE IV.

FUSELAGE PRESSURE TAP LOCATIONS -

	3 8	-	7	1,5	:	63	33	39	57	ŵ	(1)	હ્	60	36	44	96	104	///
	174 180 THS 198	`\	M	4	σ	80	0	`	ó	2	``	00	œ	00	8	2	00	7
	8		१	ó	3	43	25		63		85	%	B	114	123		135	143
. E.S	7							65										
DEGREES	69								8									
0	165/169										28	35	104	113	122		134	
١,	62									74								
1 1	156									•								
7/0	121									13								
RADIAL LOCATION	50			80	33	42	54		1.3		83	枋	103	112	121		133	142
7	(Q)										83							
101	135																	
SA	02/35/40			17	29	41	53		99		18	63	201	1	120		132	141
	0//																	
	011 521																	
P	8		9	9/	28	8	25		65		80	2%	101	0//	6//		181	140
	2			15	12	33	16	·	8		79	16	10/04	011 64	8//		18/08/	139 140
	\$5	i		14	72	38	8		63		22							
	8			13	25	37	49		61 62 63 64		77	8	66	8	111	126	129	138
	2			12	23	36	\$		19		3%							
	0	1	80	*			47		3		22	89	8	101	180	125	23	3
*	, , , ,	0	800	620.	.016	070.	.112	85%	100	177	.204 75	12.	86 10%	.378	497 116	574 125	.652	621.
TER	Mood	7.05	7.35	7.95	385	9.75	1.40	13.20.153	13.50 166 60	1395	15.00	08.9	P.75	2175 .378/07	26.45	29.40	3240	3.40
ORBITER- IN.	FULL	235	245	265 795	255	325	330	27	33	1,77	30,5	560 16.80	625	72.5	880	0762 086	1080 3240 .652 128	1180 35.40 .729 137

TABLE IV. - Concluded.

FUSELAGE PRESSURE TAP LOCATIONS

	FUL Mass 1/4 0 20 40 55 70 90 105 110 120 135 140 150 151 156 112 115 118 118 118 118 118 118 118 118 118	9	6/	28	37	46	1
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	320						
	33						
	180	1881	191				
S	12						
6. K	691						
9	15	65/		174	1887	B	
Ą	162						
3	156						
Ž	121						
V)	150	152	163	[1]	63	88	
7	140						
RADIAL LOCATION ~ DEGREES	133	15/	16/162	21/11/	188	<i> </i>	-
3	120	12 151	161	111	781 185	16/ 182	251 961
	Q/						96/
	05	160	3	2/	8	8	
Ъ	8	147 148 149	158 59 160	02/69/89/	178/79/180	08/69/50	
	8	147	(58	168	178	88	
	B						
	\$	×	157	19	17	181	
	8						
	0	145	56	3	K	8	
ž	X/2	779	821	879	126	80	8
rek-	Model	37.35	39.0	41.25	629	77	40
QBITER-IM.	ציונד י	1245 37.35 .779 145	1300 390 821 52	1375 4.25 879 166	MED 429 921 /R	1180 41.4 .900 BC	K20 40 000

12 S		0			34			19			8		,	7//		
28		٥	0		/3	77		1	13		Ä	À		14	13	
							.955	255 14	268	00%		296		'		
				.965	23	221		183			282	295 296	980	3/0	323	
				.900 .965	228 229	320	879	253	265 266 267	8	181	762	900	309	322	
Ş				385	227	239	£9.	252	265	B	280	293	.850	328	128	
TAP LOCATIONS				DE8. 001.	225 226	2.37 2.39 2.39 2.40 241	.637.798.839.879.919	250 251 252	26.0	0.00 CE 110 000 177 274 545 565 100 808 EST 905 955	277 278 279 280 281	285 399 290 291 292 293 294	00.020.020.080.050.050.000.050.000.050.000.000.00	307	311 312 313 34 315 316 317 318 319 320 321	
1007				.700	225	137	. 637	250	697	2%	278	291	13	306	3/9	
740	.793	2/6	1							38	277	8	.550	305 305 405	318	
1		2/5		.497	224	236	.390	249	262	300.	274 275 276	590	.400	38	317	
//SS:	121.63.72	2/4	1	382	223	235 236	.246	3	792	274	25	388	350	302 303	3/6	
8	145.	2/3	1	.034,229 .362	22	1331	.163	2007	250	111	274	182	051.	302	315	
WING PRESSURE	624	2/2		.034	22/	232 239 234	. 38. 38. 00. 00. 00.	24 245 246 247	3	083	273	283 280 285 286 287	080	105 008 645 965 70%	3/4	
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	.041.113	209	١	00.00.00	2.8	13	Ş		256	13	272	283	0/0	8	3/1	
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2		.235 //0			88			34 170			427	· · · · · ·		534.250		

TABLE V. - Concluded.

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	a		347	3										-				
×S ✓S	88.	385	376															
LOCATIONS	8	33%		8						07		388						
707	775	333	34 345	775			38:	357	396	28	376	335 386						
740	\$			22	332	343	Ġ	356	35	2/2	375	384						
	Ġ			380	33/	342	32	88	364	Ś	34	383	862	392	100			
PRESSURE	as.			420	330	188	36.	200	563	£20	375	38			do do/			
eses	32			8		326	83	353	38	28	372	38/	.23	392	666 866			
WING ,				05. 05. 050. 050.	328 329	239	030 .650	35.7	196	25/	371	188 381	35 SE.	390 391 392				
W	051.050			30.	327	339	080	156	360	8	370	379	157	390	397			
LEFT	620			œ0.	326	337	020.	3.50	359	00.000.000	368 369	377 378	020 049 157	339	396			
7	0/0.			0/0	325	336	000	35	388	0/0		377	020	655 855	395	.723	43	
	0		Ī	0	324		0	38		0	367		a	æ	·	814.	402 403	
	1/2	00	507	1/0	90	90T	<i>%</i> .	IÓ	87	žj	QQ	807	ķ	200	Bor	K	100	BY
%		641 300 100			673 315			285			415			021 44 26.			16834	
12		.64			673			980			188			276-			0,	

TABLE VI.

ORBITER WERTICAL TAIL & SPEED BRAKE PRESSURE TAF LOCATIONS

|--|

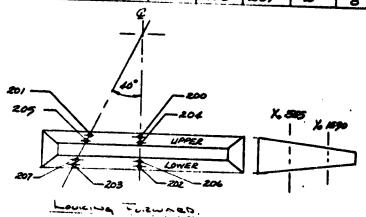
2 K	5	0/	51	20	52	30
SOF	4	5	5	5	5	6
8	805	810	815	820	83	80
59.	88	88	814	819	834	829
8	8	000	6/3	8/8	53	828
25	825	8	3	118	822	827
0/	8	3	3 8	2/10	128	826
85/2	0//	254	407	547	706	. Ash 826 527 828 829 829
20 HOEL	0.0/	0 4/	000	27.7	21.6	72.5
7705 2	SCALE 600	73/	630	200	229	750
	45/2	7/59 .10 .25 .40 .65 .90 .82/7 .1/0 801 802 803 804 805 5	7/58 10 .25 .00 .25 .00 .65 .90	7/59 .10 .25 .40 .65 .90 .8/7 -110 801 802 803 804 805 5 -254 806 807 808 809 809 805 5 -254 806 807 808 808 809 805 5	7/58 .10 .25 .40 .65 .90 .85 .70 1/58 1/6 801 .802 .803 .804 .805 554 .804 .807 .803 .804 .805 57. 51. 81. 81. 81. 81. 81. 51. 51. 51. 51. 51. 51. 51. 51. 51. 5	7/58 .10 .25 .40 .65 .90 .85 .70 .75 .70 .75 .70 .75 .70 .70 .70 .70 .70 .70 .70 .70 .70 .70

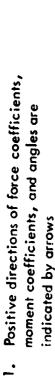
i

TABLE VII.

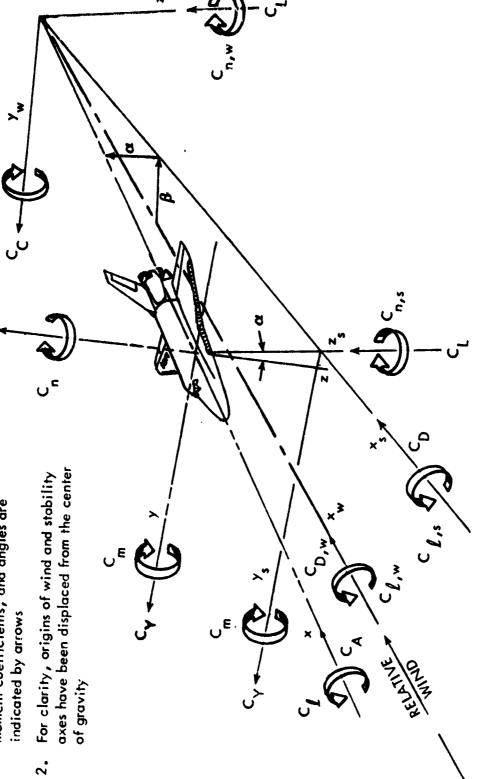
BOOVELAP PRESSURE TAP LOCATIONS

ORBIT	ER-X.	1	0-1	PEGREGS		
FULL SCALE	MODEL SCALE	X/L.	0	40	No. TAPS	₹No
1555 U	46.65	1.018	200	201	2	TAPS
	·			203	2	2
15900	47.70	1.046	204	205	2	+=-
1590L	47.70	1.046	206	207	2	-



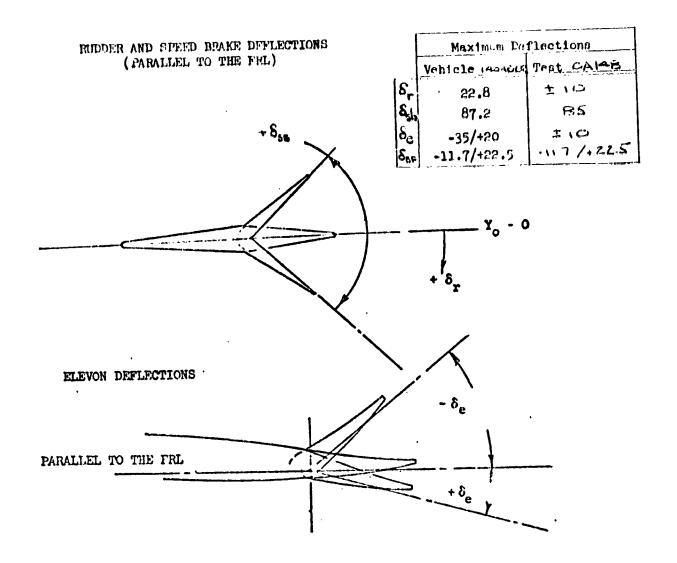


axes have been displaced from the center For clarity, origins of wind and stability of gravity 2.

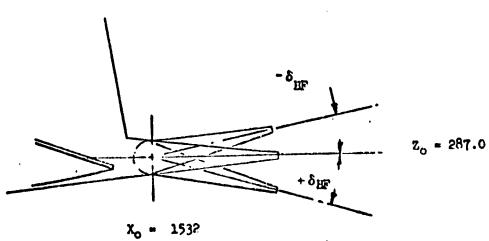


a. Orbiter Axis Systems

Figure 1. - Axis systems and sign conventions

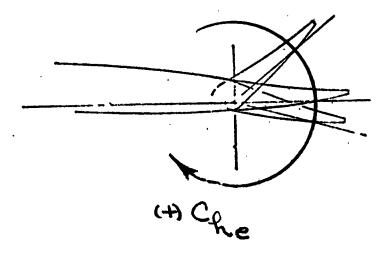


BODY FLAP DEFLECTIONS



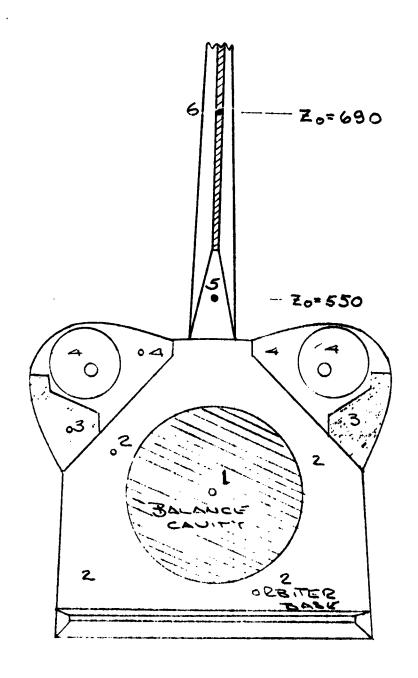
b. Definition of Angular Measurements

Figure 1. - Continued.



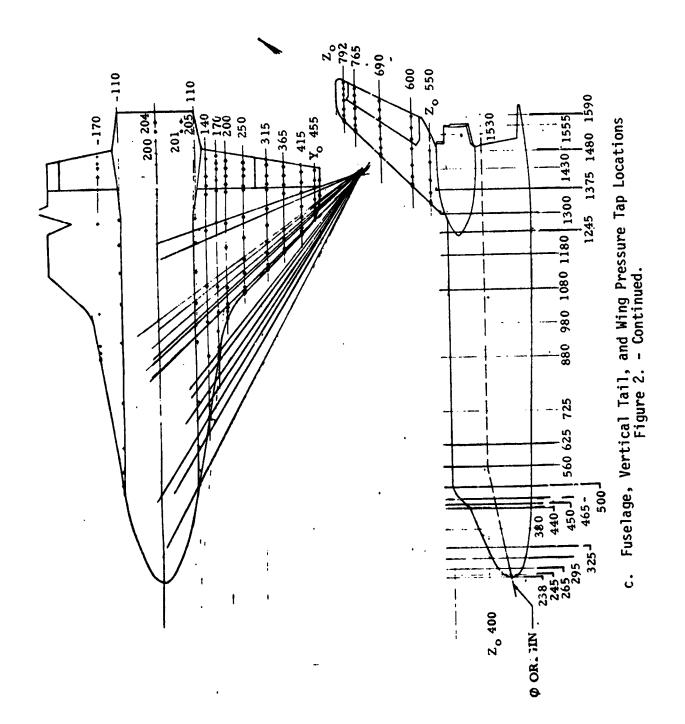
c. Elevon Hinge Moment Sign ConventionFigure 1. - Concluded.

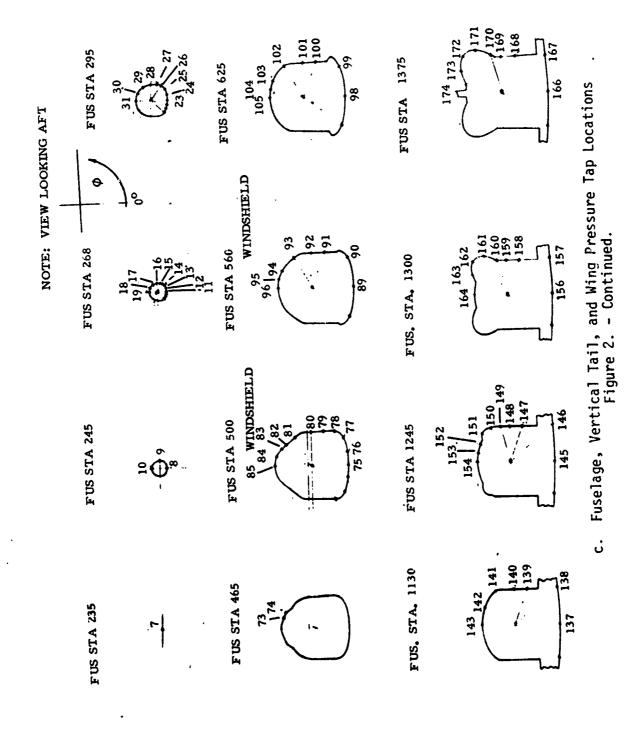
Figure 2. - Model sketches.



4200 No.	PROJECTED BRING VACUE
>	0 076699 612
A2	0 215695 jus
43	0 034072 (14
Δ4	0 074167 (AL

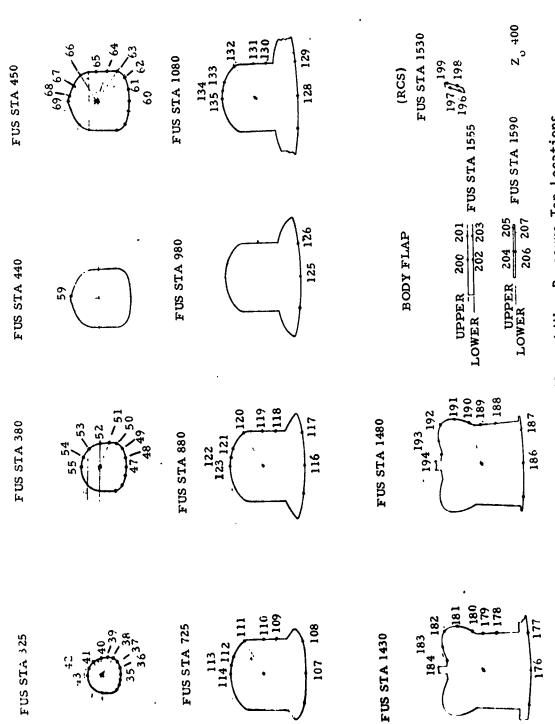
b. Base Pressure Taps and AreasFigure 2. - Continued.





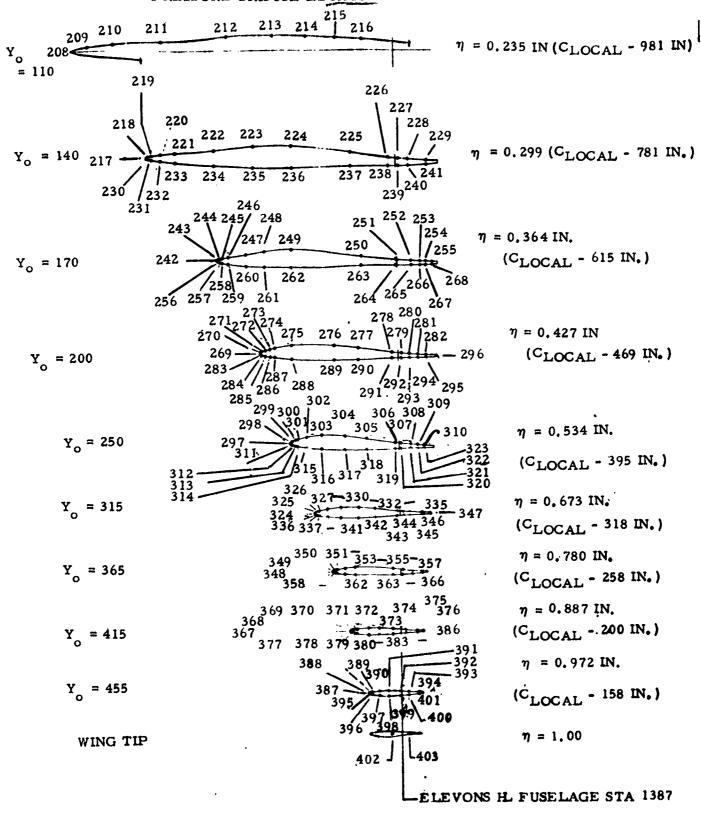
S.

1



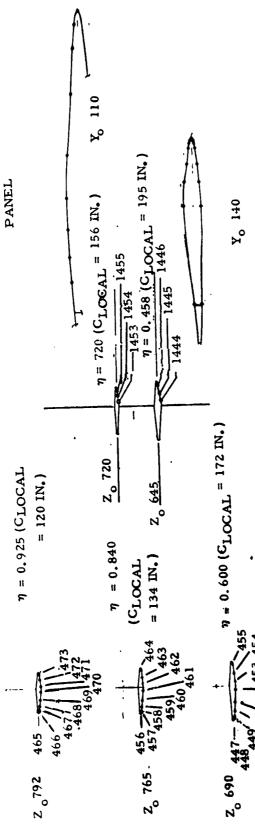
c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations Figure 2. - Continued.

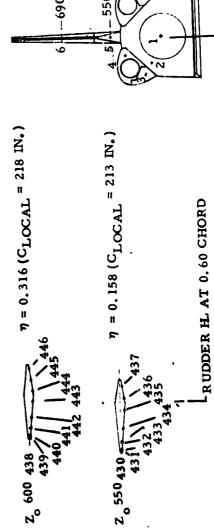
PRESSURE ORIFICE LOCATION OF LEFT WING PANEL

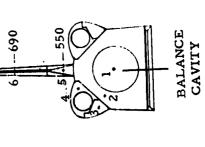


c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations Figure 2. - Continued.

1

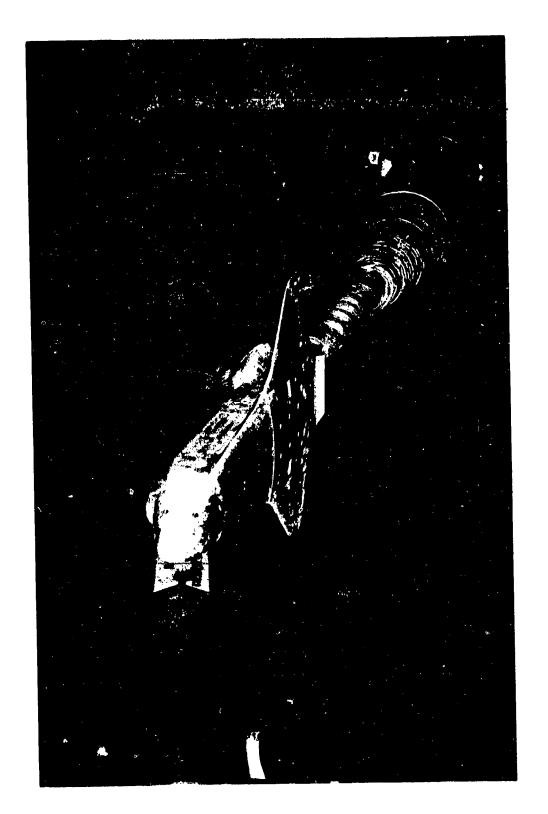






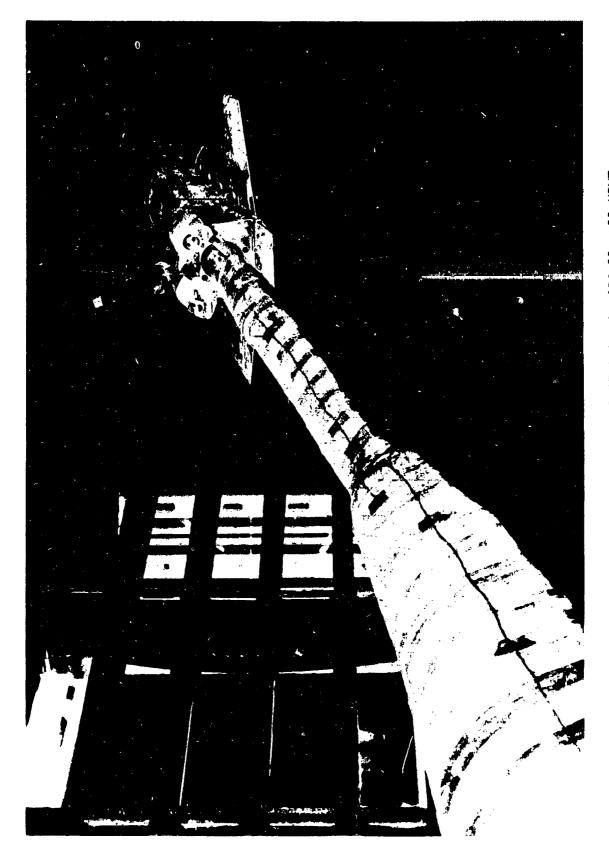
c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations

Figure 2. - Concluded.



a. Three Quarter Front View of model 47-0 in the ARC 11 imes 11 UPWT

Figure 3. - Model installation photographs.



b. Three Quarter Rear View of Model 47-0 in the ARC 11 x 11 UPWT

Figure 3. - Concluded.

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Remove of this large is 1 808.)

APPENDIX

VOLUME NO.		CONTENTS	PAGES
3		TABULATED FORCE DATA	1-723
		TABULATED PRESSURE DATA	
		COMPONENT	
4, 5		Orbiter fuselage	1-1270
6, 7, 8	(Note)	Lower wing	1271-3146
9, 10, 11	(Note)	Upper wing	31 9 7- 5404
12 12		Upper body flap Lower body flap	5405-5773 5774-6142
13 13		Speed brake Vertical tail	6143-6546 6547-7114
were a	ctually loca	2Y/BW = .673, X/CW = .775, .850, ted at 2Y/BW = .641, X/CW = .775 Table V on page 47.	

TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

PACE 643

č			Ą	MES 11-07;	3(OA148)	11-073(0A148) -140A/B/C/R ORP FUSELAGE	340 A/3	FUSELAGE			(XE8843)	E S	27 DUL 20 1	ξ. -
	בי בייבויים ביי	4									PARAMETRIC	C DATA		
SPEF = 2793, C030 LPEF = 474, B783 BPFF = 935, C693 SCALE = , 0303	200 00. P	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	375	6.6800 IN. .0000 IN. 5.0000 IN.	000 720 720				\$ B \$	RUDDER • BDFLAP • R-ELVN •	.000 22.500 10.000	SPOBRK L-ELVN MACH	#∺	55.000 10.000 .900
ALPHA (1) = -	-4.070	BETA (* = =	-3.850	MACH .	.89793	o	. 59t	598.79	Q.	- 1060.9	RN/L	•	3.6657
BED11 / NO11045	CABITER FUSE	FUSELAGE		DEPENDE	DEPENDENT VARIABLE	GLE CP								
700. BT/	30 . acea	0530	. 0460	0700	.1120	.1580	. 1660	0771.	. 2040	.2510	.3010	.3780	4970	5740
	ញ្ញុំ	٠,			- PC -		2182		2174	1776	0677	030:	. DC+3	0343
() () () () () () () () () ()		1 ft 1 tt 3 ft 1 tt 1 ft			2592		3615		- 4326	3138	- 1301 -	- 1610	.0399	新五.
) () () () ()					. 0565		1.1017		1.030.1 1.030.1	7202	0158	6193	1060	
(17) (1) (1) (1)	.73:6		3039	.3321	.1081		0690		3131	6567	0514	. 0432 . 0253	0500. 0780.	
		ψ	# CC # .	g g	# # #		.652;	•	1624 2572	8555	6+7;	.6214	.5447	
7 m m m m m m m m m m m m m m m m m m m							i	. 3643 . 3643	8358	7745	0274	.0121	.0395	
			Ċ			.8275	1417		1		!	,		
1 3	•	•		D C	5114.	1	.6370		113.1	7575	00 ut	. 0069	. 0360	
100 ·	ರ್ಷ , /ನ್ರತ	D5: 1 .	.8610	.8790	. 9210	.9600	0666.	1.0180	1.0460					
•	21713		-,2519	-, 1388	-,0837	ב היים		, T	50.0					
#0.000 + .8355 #	•		- 2+85		1204	.0388		3089	1277					
			1915 5385	2032	3077 3306	- 3058								
130.700 170.010	1. 2369.		ሆ ነታ የተ		12070		4240 - 4180							
•	1.87	• •	10 m 10 m 13 m		1585	2119								
19.00 CCC CCC CCCCCCCCCCCCCCCCCCCCCCCCCCC	•:	.3351	1284.	9060	0685	3369								

	5597		5740	1	임대	.010±													3.6637	5743	!	ų. 9	3600.			
	. 3.6		3764.		- 5110	- 210	2665	C G G	. D+83	3250.		0) 0) 1) 1) 1)		•						et ar	4	# () () ()	CE: ::		1	
	1/NE		3780		0225	8820	+0+0	6900	0110	0710.		.0192							R:/L	e C I) j	0255	0115	. 15. C.		
(XE8843)	1050.9		2010		4490	·	0412	0812 1619	.0310	0410.		6105.							6.5631		3 : 0£ .	- 3668	G54.6		1 1 - (1) - (1) - (1) - (1)	
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A - 0A148		MACH =	UT VARIABLE	.1120	76.25	0143	0570 0780 0780 1983	.2500		2775.	.9210	0592 0845 4175 4200	5110 4019 3414 3169	MACH =	NT VARIABLE	.1120	0741 0426 0301 0059
SURE DATA	AMES 11-073(0A148)	. 185 M	DEPENDENT	.0700	.0141	.0298	. 0950 . 0950 . 1541	.1887		1661.	.8790	0804 0723 3580 4623	5520 4552 3564 1627	. 2 ⁴ 2	DEPENDENT	.0700	.0020 0257 0058 .0131 .0001
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				AME	2	-073(0A14B)	-140A/B/C/R	989	FUSELAGE			(XE8843)	843)			
ALPHA (3) = 3.	. 933 8	BETA (3:	#	545.											
SECTION	C 11CRBITER	TER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP									
X/LB	. 3063	.0080	.0230	.0460	.0700	.1120	. 1580	. 1560	.1770	.2040	.2510	3010	.3780	0.4970	.5740	
PH: 150.000 151.000			. 3289	. 2406	. 1393	. 2043		4298	. 0795	6790	-1.0218	3045	.0386	.0033		
6688							o o	.5512		9881	7458	2117	. 0256	5.00		
8	1.1823	.5351	.3486	.2437	.1934	.2538	2000.	.5630	•	-1.1118	8957	2361	.0341	0024		
X/LB	. 5520	.7290	0677.	.8210	.8790	.9210	.9600	0666	1.0180	1.0460						
72.0888 90.0888 165.0888	. 2555 2555 	.3995 2965	0341 0509 0588 0588	1192 0899 0069 0033	0813 0735 3318 4104 5378	0740 1070 4932 5044	.1287 .0378 2390 2553		.4741	.1043						
00000	C5525 C5525 C552	1251 0204 . 0087	.1539 .1539 .1735 .1982	. 1023 . 3285 . 4202 . 3326	6277 5381 4459 2406	6403 5330 5171 4618	2781 4999 4207 3412	3067 3067								
ALPHA " +) = 7.9	38 866.	BETA (1)	. M	.866 MA	MACH #	.89613	ø	- 597	597.48	• a.	1062.9	RN/L		3.6207	
SECT: ON	11CaBITER	ER FUSELAGE	IGE		DEPENDENT	IT VARIABLE	ILE CP									
X/LB	.0000	0800.	. 0230	. 0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740	
_888	1.1533	.8021	.3643	.2132 2401	.1171	.0336	•	0086		0309	0560	0121	.0475	.1224	.1563	
និងខែ			10.40 10.40	. 3334	1831	.1065		.0214	·		0669	.0144	.0679	.1239	.1930	
180.000 180.000 180.000		. 6331	. 4055 . 4055	. 2917 . 2917 . 2+30	. 1959 . 1876 . 1455	. 1533 1.093 2.093		.0328 .0496 .2024	•	0934 1714 25559	4798 - 5995 -	1902 2333 4516	0848 1049 2480	- 00:35 - 16-5		
298			.2950	1181.	.1086	.2033		.5811	 6435.	•	6251	4556 -	.1308	0363		
8888							.7003	.5957	1	1.0185	. 6149	+ +669+ - +	. 0924	- 000		

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

(XE88#3)

5740 5740 .1587 .1904 -.0186 -.0195 -.0637 .4970 .0015 . 1289 .0048 8-50. .4970 .1112 -.0165 N Z .3780 .0550 .0519 -. 1099 .3780 .0892 .0833 .0278 .0188 -.0257 -.2013 -.2145 -.3289 .3010 .3010 -.4760 -. 0298 -.0075 +944.--.4256 -.434.-.8510 -.5846 -.6934 -.7148 -.0547 -.6566 .83 -.1071 -.6481 -.6391 -.6574 -.9132 1.0460 -.0286 -.0393 -.0502 -.1535 -.2516 -.3576 -.3576 .2040 . 2485 . 1556 -1.0745 .2040 -1.0425 1.0460 .1770 .1770 1.0180 .5201 .1739 1.0130 .5212 4185 -.0055 -.0081 .0032 -.0291 -.0336 -.0202 . 1660 9666 .1660 5572 .9990 .4951 -.4147 4998 5334 O .1462 .0446 -.1630 -.2740 -.2944 -.2478 -.2439 -.3064 . 1580 .9600 .1580 .9600 .0561 £99. DEPENDENT VARIABLE CF DEPENDENT VARIABLE CP -.0549 -.0942 -.3834 -.3426 -.3564 -.3309 -.2599 -.2291 -.1779 .0314 .0723 .0633 .0786 .0897 .9210 . 1995 .1120 -.0585 . 1942 .2103 .9210 MACH -.0382 -.0296 -.1677 -.2163 -.2818 -.3935 -.4150 -.3326 -.0833 .0700 -.0385 . 1072 .8790 .0700 .1056 1052 1052 1347 1347 0974 0888 -.1.389 -.0175 .0493 .0318 .0460 .0192 .1761 .2640 -.0402 .1687 .8210 2246 2246 2466 2315 1981 1887 . 1589 .8210 .0460 1816 = <u>ي</u> .0434 .J704 -.2869 -.1296 .0891 .0856 .0903 .0914 .0230 .7790 .0230 3702 3868 4465 4297 3368 3773 2360 0491 .2151 2732 .7790 BETA SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE ¥192 -.1294 .0080 . 7290 -.5707 .0080 -.2942 .8095 **#808** .1104 .4050 -. 084t .7290 ¥::: 8.006 7.998 .0000 1.1603 -.3104 . 1568 . 1646 .0000 .5550 1.1681 1.1681 ALPHA (4) PHI 180.000 70.000 70.000 90.500 1105.000 120.000 120.000 135.000 165.000 .000 40.000 X/LB Ë X/LB £ X/_B

			AM	AMES 11-07;	11-073(04148)	-140A/B/C/R	C/R ORB	ORB FUSELAGE			93X)	(XE8843)		}
5	8.00E	BETA (;	ج (ع	. 180										
M	110PBITER FUSELAGE	AGE		DEPENDENT	ENT VARIABLE	ABLE CP								
	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
	6272 4800	3604 2053 0511	0250 0271 0236	-, 2353 -, 3172 -, 4048	4265 3892 4241	3066 5572 5403								
	-,2524 -,1395 -,0835	0043 .0638 .0398 .1088	.0569 .2661 .470+ .3737	5220 4615 3909 1778	4421 3466 3328 3178	4135 3199 2897 3068	÷, 3906 ÷, 2855							
	400	BETA (3	11	4.244 M	MACH =	. 89613	o	= 597,48	α	۵	0 000		1	9
-	TER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	ဦ	ı		<u>.</u>				μ	3.5207
	. 2083	.0230	. 0460	.0730	.1120	. 1580	.1660	.1770	.2040	.2510	2010	1967	נו מו	i.
	.7920	.3350	. 2165	1076	5.70		0085		0344	0573	0221	.0511	.1235	3751.
		3300	1770	.0828	.0239		0331	•	0307 0307	1597	1005	.0206	.0859	.1751
	.3274	.26554 .25534 .2533	.0908	0052 0014 .0220	0123		1008 0922			6500 7630 7405	1734 1727 2517	1131	0419 0259 0215	
		.2892	.1550	.0582	. 1632		860+,*	ין י	6457 1.0224	6647			4:00.	
						(.5128	1544	.0+96	6983	4744	0505	.0095	
	.3814	.2239	. 1384	.0920	.2001	B129.	.5210	ï	. 0487	7076	- 4606	. 06:00	0061	
	.7293	3677.	.8210	3678.	.9210	.9600	. 9990	.0180	.0460					
	.1:31	. 0476 . 0625 . 3535 . 2865 . 1540	0421 0150 0890 0967	0424 0407 3036 4057 5086	0683 1093 4430 4172	. 1414 . 0521 3805 5450			.2497 .1059					
, ,	2310	0734 .0308 .0856	0199 .2532 .3336	6243 4870 4174	5488 1562 1820		3423							

(XE8943)

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				3.6129		.5740	3722.	4175.															
				٠ •		.4970	. 1928	. 1909	0317	0536	2625	0880	0483		0152								
				4 RN/L		.3780	1124	. 1249	1434	1673	4126	2217	2030		1893								
				- 1061.4		.3010	.0618	.0724	1969	1.2444	5269	5085	5610		5461								
				۵.		.2510	.0392	. 0236	4.4074	5277	6626	5627	5750		5980								
		1.0460		598.50		.2040	.0551	. 0593	0181	1405	2516	5293	8535		7185	1.0460	.2483	. 1322					
		1.0180		* 598		.1770						9020	. 2358 2358 358			1.0180	.5562	9444					
		ე666 .		ø		. 1660	.0767	. 1198 . 1198	.0538	.060¥	.1867	.5584		. 5596	. 4505	0666.				3483	2781		
	SLE CP	.9600	3108	.89753	E CP	. 1580								000	anco.	.9600	.1320	.0146	5599	. 3333	4187	- 3286)
	DEPENDENT VARIABLE	.9210	4502	MACH =	DEPENDENT VARIABLE	.1120		. 1381 . 1966	1564	1408	. 1389	1041.			. 1448	.9210	0451	1053	3831	1,430,	4496	3351	;
4.244	DEPENDE	.8790	2414	-3.853 M	DEPENDE	.0700	.2296	.2334 .2890	. 2530 1987	1634	. 0582	.0133			. 0225	.8790	00%	.0007	. 2810 	1.54.1	3892 3965	- W.95	•
Ħ		.8210	.3028	-3		.0460	.3362	. 4052	3637	2500	1443	. 0850			. 0639	.8210	. 0255	0559	9000-	un to	.0987 .175	.2823	.3211
BETA (3)	tGE	0677.	. 0929 . 0985	BETA (1	A GE	. 0230	.5010	. 5525 . 6208	. 5697 4894	. £281	.2988	. 1646			0960	.7790	.1234	1522	5418 :311	usua	0110 3886	- 0283	.0672
	R FUSEL	.7290	08+1		R FUSEL	. 0080	.9256			.5576					. 2479	.7290	. 1939	1	7326		3048	2467	1442
= 8.00¢	11 ORBITER FUSELAGE	.6520	1121	- 11.977	LIORBITE	. 0000	1.0957								1.0957	.6520	.2334	. 284 3	4516 3456		3747	2607	1688
ALPHA (4)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	x,tB	PH1 000.	20.00 0 40.000	55.000	90.000	120.000	150.000	151.000 162.000 165.000	169.000	180.000	X/LB	FH1 .000	40.000	90.000	165.003	180.030 185.000	100.000 100.000 100.000 100.000	180.000

.2255 2218 27.40 3.6129 078#. -.085+ -.078€ -.13€€ .1356 -.0073 .0072 .497 - C. . 193€ 13 **3**3 -.1837 -.1920 -.3013 .1076 .3780 .0882 .3780 -: 1792 .1168 .0426 (XEBB#3) 1061.4 1061.4 -.2385 -.2357 -.4313 .3010 .0644 .0126 -.5090 -.5370 -.5372 .3010 .0+8E -.068∂ -.5115 -.6405 -.7352 .2510 .0335 -.0424 -.6108 -. 1130 -.5907 -.6178 .2510 .0292 .0624 .0406 .0126 .0939 .1261 .2167 .3488 .4999 .2040 .0519 .0138 -.0533 -.1584 -.789 -.4898 -.9439 -,7696 1.0460 3+0≥. 598.50 598.50 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 1.0180 .1770 .1597 .5564 .1770 .0828 .0750 .0750 -0236 -0155 -0158 -1372 . 1660 4840 0666. -.2793 .5127 .4873 .1660 .0520 .0520 .0175 .1023 .0796 ..0636 ø .89753 . 1317 . 0183 - . 5630 - . 5933 -.5299 -.4357 -.3704 . 1580 .6076 .9600 .89753 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0468 -.0964 -.4270 -.4201 -.5052 -.5233 -.4363 -.4149 -.3436 . 1120 .1266 .1437 .0627 .0746 .0788 .1590 .9210 .1412 .0978 .0567 .0314 .0123 .0253 4.261 MACH MACH .0700 2307 2156 2283 2283 11439 20607 20689 20689 .0017 -.0014 -.3405 -.3747 -.4674 -.4337 -.3930 -.1576 .0294 .8790 .0703 .1817 .1817 .1493 .0288 .0194 .0153 .0267 .0273 -.1130 -.0739 .0460 .0748 . 8369 . 3598 . 3598 3463 3464 3360 2461 2461 1863 15:7 6060 .6210 3316 3018 2018 17719 2775 2475 â BETA (3) 2.0339 2.00.1 2.00.0 7.00.0 7.00.0 7.00.0 7.00.0 .0230 . 1846 - 3039 - 1882 - 7738 5208 5208 5208 5208 5203 5433 5433 5433 5433 5433 5433 8 <u>...</u> 0877. 4980 4654 4164 3042 2743 2764 1751 . 5233 BETA . 110RBITER FUSELAGE 1:09BITER FUSELAGE .0800 -.7476 1486. .7230 2384 .1931 -.3151 .080 -. 2269 -. 1255 9:86 . 2571 1:.989 .1.978 -.2162 -.1672 -.1447 0000. . 4833 - 4833 - 3545 - 3546 1.1035 .6523 -.2833 1.1035 ALPHA (51 SECTION : ល 1.01.035 ្តបន្ទាធិប្បធានិក្សា ១០១៦១១១១ ១០១៣២១៣ ១០១៣២៣ A PHA ä

+.5834 +.7143 +.6830

(XEBB+3)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	ALPHA (5) = 11.978 BETA (3) * 4.261
	BETA
	11.978
ı	_ 20 #
; ;	A. PHA
	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

.5746 .4970 .0031 -. **02**06 .3780 -.1776 -. 1973 -. 1864 .3010 -.5327 -.5413 -. 5204 .2510 -.5927 -.6005 -.6004 -.6197 -.9866 -.9790 .2040 -.6728 . 2548 . 0943 1.0460 .1770 .0683 .1037 1.0180 . 5590 . 3957 . 1660 .9990 .3910 4794 .4822 . 1580 .5815 .9600 -.5852 -.5848 -.4899 -.3595 DEPENDENT VARIABLE CP .1120 . 1245 .9210 -.0494 -.0855 -.5153 -.5441 -.6436 1491 -.6390 -.5086 -.4820 -.4232 .0700 -.0132 .0146 .0009 -.0045 -.3831 -.4570 -.5593 .8790 -.5403 -.4558 -.3962 -.1942 .070€ .0460 .0247 .0501 -.1329 -.1330 .0626 .8210 -.0062 .2099 .3347 . 0230 . 1247 . 1**253** . 1444 - . 2374 - . 1859 -.0667 .0121 .0793 .0821 .1107 .7790 SECTION (1) ORBITER FUSELAGE .0000 .2143 -.7575 .7290 . 1889 -.3010 -. 1600 .0000 .. 0894 . 6520 .2337 -.4551 -.3505 -.2194 -.1514 -.1486 -.1657 PHI 140.030 150.000 151.000 165.000 165.000 169.000 K'LB

(XE8844) (05 AUG 75)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

		55.000 10.000 .600	e e	7 TARE T		•	- 000 ·	1311														
		H H H			į	j (). C	132E	0000	.083F	7 6	an 10 ·	0248	į	7							
	DATA	SPOBRK L-ELVN MACH	Ž	KRV L	5	08/s.	0800	.1602	.0501	.0375		- /850.	- 6090 -	3620								
	PARAMETRIC DATA	.000 22.500 10.000	2207	27.653	9			- 1922 -	.0006	0378		e scot	1267 -	1 364								
•	D.	RUDDER = BDFLAP = R-ELVN =	•		ָ בַּ	36.		2641 -		- 158+		9	. 2393	- 7955								
		25. 20.5. 35.	593.75)	מאנות י	- 1535	1987	. 3256			416	7	- 9410 -	-1.1815			-0934	.0747				
			# 593		0771						•	. 2469 2528		ī	. 0810.1		.3471	. 2932				
			o		. 1580	-, 1805	2397	3650	0232	0050 .1862	.5531		.5707	.3729	0666					3596 2740		
			.59610	BLE CP	. 1580								!	. 6968	.9600		. 0682	2174 1555 1813		-	- 1 766 - 1 459	2985
		828	MACH	DEPENDENT VARIABLE	.1120		2773	3135	-080.	3234	.3472			. 2859	.9210				1937		0917 0629	
		.0000 IN.	.853	DEPENDE	.0700	2216	£837	0136	1519	המראה. מראה:	34+0			.2773	.8790			1044 0990 1138	2063		7000 2000 1000 1000	
		375	7- = []		.0460	2148	וויים ביים מינים ביים	, 0584 4800	4 C.) in	. +308			. 3423	.8210			- 1405 - 1101 - 1569		0124	3165	.2375
TA	5	YMRP YMRP ZMRP	BETA (AGE	. 0230	2153	ייי המער: המער:	, ci i	1) t 10 t 10 t 10 t	.6239	.5707			8044.	9677.		5111	0190 .09190 .0813	-1321·	.2230	7.00 10.00 1	600 1000 1000 1000 1000 1000 1000 1000
REFERENCE DATA	S	ZZ		110RBITER FUSELAGE	.0080	6-2:			7395					.7054	.7290		3955	-, 0405 . 0056		9190.	.0759	. 3398
REFE	2000 0086	474.8000 936.0680	1 = -4.010		. 0000	1.0:36								1.0105	.6520		•	6336 0245		.0:28		• • •
	11		ALPHA (1)	SEC*10N	a//x	11 c	£0.000	50.00 50.00 50.00 50.00	90.00	180.000 140.000	150,630	162.000	174.000	180.000	X/LB	i Hd	000	70.000 60.000 77.000	10		<i></i>	

		e		Q	8						_		ö	5 (H
j		4.884D		5740	0502					•	¥.8843		.5740	0441	8 0 1
1		•		4970	5 60 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	∪ 500 -	-909-	.0055					.4970	.0302	. 0510. 1010.
		AN I		3780	- 7420. - 1096 0310 - 0696	.0254	0311	.0380 -			1887		3780	•	,
	(XE8844)	ú		•	• • •	' '	·	'			ú		•	Otto	0064 0086 0351
	8	2387.2		.3010	0755 1369 0373 0753	0915	0336	1020			2387		.3010	0685	0653 1034 2400
				.2510	- 1987 - 1987 - 1820 -		. 1515.	- 1996			•		0162		1491 - 2164 - 2622 - 2842 -
		٥					•		_		۵.		•	i	
		593.75		.20¥0	1353 1643 1959 1959	2698	9319	-1.1544	1.0460	. 0473 . 0473	593.75		.2040	1315 1495	- 2141 - 2197 - 3565 - 3565
•	FUSELAGE	- 59		1770		1991	1932	•	1.0180	. 2898	. 593		0771.		
	-140A/B/C/R ORB FUSELAGE	o		. 1560	- 1610 - 2019 - 304 - 1753	.5056	. 5589	.4666	9990	3610 2967	o		. 1660	1523	6386 2009 1718 1935
	-140A/B/	. 59610	BLE CP	. 1580			6930		.9600		.59610	LE CP	. 1580		
	11-073(0A148)	# HOVE	NT VARIABLE	.1120	4555 4559 4860 6009 6000	.3245		.3188	.9210	0676 0736 1568 1907 2410 2567 1497	MACH .	UT VAPIABLE	.1120	2116	6511 1723 0701 0575
	MES 11-073	.84S	DEPENDENT	.0700	- 2051 - 2600 - 2600 - 05430 - 05430 - 05430 - 05600 - 05600 - 05600	. 2253		.3101	.8790	0972 1056 1447 1854 2838 2940 1998	.188 m	CEPENDENT	.0700	1964	- 1056 - 1056 - 0138 - 1461
	AME	3 = -3		.0460	- 1843 - 1924 - 1910 - 0036 - 1350 - 1350	120		.362+	.8210	1531 1430 .0504 .0557 .1696 .4240 .4263	•		.0467	1772	1.037. 037. 037. 030. 035.
		BETA (2	AGE	.0230	1809 1-1649 01140 0170 3405 3405 8625 8625 8625	.5+37		.4785	.7790	1096 0231 0231 0233 001 2035 2739 2739 2739 2739 2739 2739	BETA (3	AGE	.0230	1803	
		B +66	ER FUSELAGE	.0090	.1720			.7285	.7290	0882 0769 0233 .0342 .0348	.985 86	FUSEL	.0093	. 1906	F-854.
)		-3.6	1 1 ORB 1 TER	.0000	1.0531			1.0531	.6520	0759 1482 0013 0015 00195 00195	-3.9	: 1CRBITER	.0000	5190.1	
		ALPHA (1)	SECTION (X/LB	2000 2000 2000 2000 2000 70000 9000 9000	ខ្លួន	33588	86	X/LB	PHI - 000 70.000 90.000 105.000 170.000 175.000 155.000 165.000	ALPHA (11	SECTION (X,LB		18 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

(XE8844)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

-3.995

DATE 10 FEB 76

SECTION (110RBITER FUSELAGE	A GE		DEPENDE	DEPENDENT VARIABLE	ALE CP									
1.8	. 0000	. 0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.25.0	.3010	.3780	J. 1970	5740	
PH1 FP1 500.000 51.000			. 4859	.3718	. 2836	.2787		.4106	.0331	3513	2521	0970	0257	.0092		
65.000 65.000 69.000								. 5265	. 09 1 3	9374	1981	0951	0290	.010-		
80.00	1.0512	.7290	. 4920	-400S	. 3248	. 3299	.6799	.5113	•	1.1233	1861	087!	0221	.9128		
r.e	.6520	. 7290	DBTT.	.8210	.8790	.9210	.9500	0666.	1.0180	1.0460						
PHI .000 40.000 70.000 90.000 05.000	0762 1257 0503 0154	0364 1028 0508	1113 0555 0608 0497	1520 1383 .0106 .0340	0932 0999 1866 2411	0690 0702 1900 2256	.0666 .0181 1992 2211	9 9 1	.3793 .2547	.0330						
20.000 35.000 50.000 65.000	.00389 .0398 .0297	.0165	.1247 .2192 .2440 .2402 .2462	.1933 .4443 .4676	4107 2917 2084 0504	3501 2204 2038 1997	3434 2623 2156 3059	3273								
PHA (1)	-3.992		BETA (4)	i :	.269 MA	MACH =	.59510	σ	= 593.75		•	2387.2	RYL	•	4.88+0	
ECTION (110RBITER FUSELAGE	R FUSELA	GE		DEPENDENT	VT VARIABLE	LE CP									
r. B	. 0000	.0080	.0230	.0460	.0700	.1120	.1580	.1660	.1770	. 2040	.2510	.3010	3780	378¥.	5740	
PHI 	1.0+07	. 2818	. 1851 - 1877 - 0718 - 0719 - 1769 - 1769 - 1769	- 1783 - 1839 - 1839 - 1140 - 1859 - 1350 - 1350		2022 2008 1999 1501 1505 .0257	.6136	1645 1676 2037 2264 2722 1932	. 0996	1.1365 1.1464 1.14646 1.1635 1.1635 1.1637 1.1637 1.1639 1.9443	-, 1162 · -, 1240 · -, 2420 · -, 3426 · -, 3426 · -, 25.2 · -, 2160 · -, 216		0534 0408 0237 0537 0560	0351 026E 0293 0293	0558 0411	

Š	n 8			É	2				4.88£	1940	0534	0198						
2040				6		6060			•	57£4.	0493	.0315	.0306 .0194 .0184	0712	0500	1.054	; }	
	(XERRAL)			200		U3 /e			FNVL	.3780	0585	0315	0162	- 1545 -	0929	0785 -		
	, XE			5	ğ				. 2387.2	.3010	0957	0529	. 1349		- 1527 -	1389		
				80	9				• •	850	1255	1135	2566 3193 3913		2355	2335		
	i.i	i		.2040	7	ָרָע פֿרָע			593.75	.2040	1562	1710 259-	3174 4947 5433	5189	. 9566	. 1465	1.0460	0014 0014
<u>-</u>	FUSELAGE			170		1.0180	. 3495 . 3495 . 3662		i i i	0771.				2555	1739	ï	1.0180	. 3450 . 2436
(AMES 11-073-1	-140A/B/C/R ORB			ນອອາ ·	:884 :	0666.		3584 3584	o	. 1660	1756	1877	2695 3440 3357	1941.	.3709	. 3935	.9993	
¥	3		ಕಿ	1580		9600	202838	8281	0 0	9					,,			~ ~
- 64 - 64				•		96.	. 0656 . 0138 . 2051 - 2401	4236 3172 2736 3101	.59610 Ble CP	. 1580					28.48.		.9600	.0657
- 0A148			VARIABLE	. 1120	.3219	.9210	0667 704 2098 2579	440645 301131 300327 295931	H = . VAR¹ABC	.1120 .156	2073	1915 2076	1893 2263 1023	.1067	i i	. 2782	.9210 .960	•
- 0A148		4.269		. 0511. 0000.	.3108	. 8790 . 9210	09760667 10087704 25682098 29063579		349 MACH = . DEPENDENT VAR'ABL	•	2263 23482073			.1140 .1067	in the second se	•	•	0697
PRESSURE DATA - 0A148	AMES 11-07310A1481 -1401	4.269	VARIABLE	. 0460 . 0700 . 1120	. 3829 . 3108	. 9210 . 8790 . 9210	151509760667 128210081704 030022682098 031129052579 019842693210	4406 3011 3003 2959) = 8.349 MACH = . DEPENDENT VAR'ABL	. 1120	. 1921 2263 . 1928 2348	2260	. 1324 1943 . 0009 1127		•	. 2782	. 9210	•
- 0A148		•	DEPENDENT VARIABLE	. 0230 .0460 .0700 .1120	. 4826 . 3829 . 3108	. 0158. 08790 .877.	1131151509760667 1040128210067704 1005030022682098 0404031129052579 0035019842693210	0333 - 5425 - 4406 2921 - 4006 - 3011 4732 - 3207 - 3003 4481	(5) = 8.349 MACH = . DEPENDENT VAR'ABL	. 0511. 0700 .1120	19212263 19282348	.20532260 .16941921	. 1324 - 1943	0411. 561		. 2646 . 2782	. 0156. 0878. 0510	.153310170697 .119908250640
PRESSURE DATA - 0A148		BETA (4) .	FUSELAGE DEPENDENT VARIABLE	. 0580 .0230 .0460 .0700 .1120	. 6949 . 4826 . 3829 . 3108	. 0158. 0678. 0158. 0877. 0857.	09101131151509760667 1040128210087704 12851005030022682098 07630404031129052579 0035019842693210	727 .033354254406 1477 -292140053011 1871 .473232073003 192516762959	7 BETA (5) = 8.349 MACH = . FUSELAGE DEPENDENT VAR'ABL	. 0530 .0460 .0700 .1120	19212263 19282348	20532260 16241921 16311931	. 1324 - 1943	0411. 2013. 908		. 3290 . 3546 . 3782	. 0150. 0678. 0158.	. 1151 - 1533 - 1017 - 0697 .0951 - 1199 - 0525 - 0640
PRESSURE DATA - 0A148		• 3	DEPENDENT VARIABLE	. 0230 .0460 .0700 .1120	. 949 .4826 .3829 .3108	. 0158. 0878. 0810 .921.	.0910 - 1131 - 1515 - 09760667 - 1040 - 1282 - 10087704 - 1055 - 0300 - 2568 - 2098 - 6763 - 0404 - 0311 - 2906 - 2579 - 0035 - 10198 - 4259	.0405 .0297 .033354254406 .3011 .0451 .1977 .292140063011 .0451 .197332073003 .0818 .2523 .4408	(5) = 8.349 MACH = . DEPENDENT VAR'ABL	. 0230 . 0460 . 0700 . 1120	285 - 2037 - 1921 - 2263 - 2055 - 1929 - 2348	20532260 16241921 16311931	. 1575 - 1354 - 1943 . 1575 - 1354 - 1943 . 1575 - 0009 - 1157	0411. 2013. 908		. 5274 3290 . 2646 . 2782	. 0150. 0678. 0158. 0677. 06	. 1930 - 11017 - 1533 - 1017 - 10697 - 10951 - 1199 - 10525 - 10640

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(XESB44)

AMES 11-073:04148) -1404/8/2/R ORB FUSELAGE

					4.8783		5740	.0106	0395							
					89. 3.		. 976+.	1500.	0544	.0521 .0336 .0578	0651	0665	0708			
					RN/L			•		'	i					
							.3780	0428	0639	.0308 .0101 0719	0857	0937	0928			
					2386.1		.3010	0721	0873	0221 0544 2208	1575	1680	1625			
					# a.		. 2510	1002	1453	1300 1549 2239	4025	2933	2680			
		1.0460			96.		.2040		2023		4595	-1.1077	1.3487	1.0460	. 253	
		1.0180			= 593.96		.1770				. 1856	-	•	1.0180	.3946 .3445	
		3666.	- 3E67	3746	ø		. 1660	1375	1713 2190	0391 . 0085 . 0225 . 1739	.5169	.5076	.2991	0666.		2666 2666
	LE CP	.9602	2060 2549 3107	4768 3755 3362 3192	.59632	וב כף	.1580						.6555	.9500	00	2046 1927
	DEPENDENT VARIABLE	.9210	2298 2793 3501	5415 4053 4257 3936	MACH	IT VARIABLE	.1120		1962 1630	. 1346 . 1346 . 1654 . 2849	. 2593		.2076	.9210	0609 0695 11*1	1765 1253 1017
8.349	DEPENDEN	.8790	2651 3259 4792	6893 5506 4831 3056	-7.886 MA	DEPENDENT	.0700			. 2018 . 2018 . 2899	. 2445		. 1833	.8790	0764 0837 1167	- 2149 - 1735 - 1655
.89		.8210	0702 0777 0561	1855 .1205 .4:77 .3438	.7- "		.0460	1150	0936	. 1914 . 2969 . 3445 . 3949	.3184		. 2440	.8210	1203 1099 1087	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
BETA (5)	સુ	.7790	1362 1053 0599	3711 .0386 .0829 .1103	TA (1)	ig.	.0230	0635	0223	. 1086 . 1586 . 15195 . 1518	.4508		.3162	7793	072- 0270- 0270- 0270- 1-03-	1683 2525 7115
.007 BE	110RBITER FUSELAGE	.7290	1546 1115	0978 c261	039 BET.	R FUSELAGE	.0090	.3193		. 7333			.5752	.7230	1000 1000 1000 1000 1000 1000 1000 100	3200
0.7	110RB1TE	.6520	-, 0840 -, 0539	0621 0508 0405		1:08B1TER	.0000	1.0383					1.0383	.5523	5293 3779 1007	03/7
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PAGE						•		.497C	±00°.	0283	.0215 .0142 0292	0316	0292	0285			
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	(XE8844)					2396.1		.3010	0530	0567	0591 0863 2243	1370	1349	1276			
						.		.2510	0828	1123	1820 2146 2583	3460	2601	2428			
				1.0460		593.96		.2040		- 1632	1528 2379 2625	5058 5058	-1.0913	-1.3101	1.0460	.0990	
_	FUSELAGE			1.0180		* 593		.1770					100	•	1.0180	.3236	
11-073-1	ORB			ე666.		ø		.1660	1205	1432	0598 0747 0660 0822	.4597	096 ₄ .	.3945	0666.	* 75.07	- 2843
3 (AMES	-140A/B/C/R		LE CP	.9600	2970	. 59632	LE CP	.1580						. 6363	.9600	.0780 .003. 1737 2681	2230 2275 1948 25.33
1 - 0A148	-073(0A14B) -		DEPENDENT VARIABLE	.9210	0593	MACH #	IT VARIABLE	.1120		1650 1276	. 0193 . 0528 . 0717 . 2168	.2471		.2379	.9210	0556 0641 1528 1928	2481 1746 1523 1481
SURE DATA		. 886	DEPENDEN	.8790	.1032	-3.866 M	DEPENDENT	.0700			. 1026 . 1339 . 1339	4855.		.2109	.8790	0787 0847 1428 1839	2974 2393 1957 0049
ED PRESSURE	AMES	T- #		.8210	ያቸቱ0	# -3.		.0460	8785	0631 0401	. 1887 . 1887 . 3158 . 3158	.3069		.2765	.8210	0.000000000000000000000000000000000000	.3182 .3597 .3066 .3432
TABULATED		BETA (1)	GE	.7790	.1560	BETA (2)	IGE	. 3230		5036	84888 8888 7000 7000 7000	, t		.3532	3677	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	. 2339 . 2339 . 2339 . 2359
		. 039 BE	R FUSELA	7293	0052	052 BE	F FUSELAGE	.0080	.3518		9 329.			.5900	.7290	# ### # ### # ### # ###	\$ 0 to
ر. 5		0.	110PBITER FUSELAGE	.6320	0582 0639	D	: 10PB!TEF	5500.	1.0717					1.67:7	.6520	#9 (#1 · · ! // #1	0 000 0 000 0 000 0 000 0 000 0 000
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34¢)			77BU	0207	0185	0280	0525	0487	04E3				I N		.3780	•	.0105	0387 0449 573
(XE8844	ານ		3010	0460	0418	0866	1225	1248	1172				2386.1		.3010	- 02490	. 0352 -	1063 - 1293 -
	.		.2510	0770	0939	2233		- 5456	2261				1		.2510	. 0863	- 4680.	7.2488 7.6842 7.3378
	593.96		.2040	1021	1120	1/95 2163 3252 3578		1.0788	1.2899	1.0460			96. a		.2040	.1063 -	•	- 3355
FUSELAGE	= 593		.1770					0109 . 0279 -	•	1.0180	. 2815		. 593.		.1770	1 1	1 1 1	111
98	٥		.1660	1128	1533	- 1353 - 1472 - 6304	.3674	9393 33	.4423	0666.		-, 3599 -, 3050	ø		.1660	1212 1274	1438	1951 2251 1804
-140A/B/C/R	. 59632	BLE CP	.1580						.6243	.9600	.0789 .0197 .191 8155	3164 2671 2501	. 59632	E CP	.1580	• •	• •	•••
11-073(0A14B)	MACH	NT VARIABL	.1120		1196 1196	0237 0154 1329	.2151		. 2525	.9210	0586 0558 1849 2294 2788	3236 2345 2305	MACH .	T VARIABLE	.1120	-, 1453	1289	0913 1003 .0343
ES 11-073	.192 M	DEPENDENT	.0700	10.1	1087	0154	1961.		.219 4	.8790	0791 0823 1897 2477	3864 3181 2547 0952	Z48 MA	DEPENDENT	.0700			0767 0695 0204
AME	3) =		.0460	0716	- 0500	. 0884 . 1230 . 2249	.2860		. 2957	.8210	1131 0985 0085 00215	.3428 .3923 .3903	. 		. 0460	5814 0838		3137 3362 1168
	BETA (3	AGE	. 0230	0284 -	ָם מְּאָרָ מְּאָרְאָרָ מְאָרָאָרָ מווייייייייייייייייייייייייייייייייייי	.373 1878.	. 3902		. 3728	. T790	0709 0647 1060 0293	.1174 .1853 .2023 .2058	TA (4)	ងូ	.0230			. 1930 . 2628
	053 E	ER FUSELAGE	. 0080	. 3562		.4476			. 5939	.7290		0189 .0353	049 BET/	R FUSELAGE	.0383	. 3383		. 2789
	,	TIORBITER	.0000	1.0792					1.3792	.6520	08:3 1546 1549	0569 0058 0357	6	11G9B1 1E	. 3983	1.08:3		
	ALPHA (2)	SECTION (87/X		98	84.89 89.99 89.09	36761 76767 76767	នួកក្រុក សូវស សូវស សូវស សូវស សូវស សូវស ស្	20 70 70	m ∵, *	P+:		A_FFIA (2)	1 KO1 10 H	א/נפ	. 6 G	ລຸທຸດ ຊື່ດຊື່	000 000 000 000 000 000 000 000 000 00

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.5740 .5740 563 PAGE .4970 -.0305 -.0333 .4970 1 1 1 .3780 -.0617 -.0591 -.0577 .3780 -.0393 (XEBB44) .3010 2386.1 -.1343 -. 1346 -.1227 .3010 -.0559 -.2905 .2510 -. 2455 -.2406 .2510 -. 1001 .2040 -.4792 -1.0741 -1.2910 1.0460 .2040 -.1292 -.1334 -.1557 -.2327 -.2977 -.4456 -.528 -.528 8 593. AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .1770 -.1435 1.0180 .366E .2629 .1770 . 1660 .2599 .4035 .9990 .4221 -.3739 .1660 O .0746 .0146 -.2082 -.2458 -.3040 .5612 .9600 -.3524 -.3166 -.2841 -.3057 DEPENDENT VARIABLE CP .59632 .1580 DEPUNCENT VARIABLE CP .1120 -.0612 -.0568 -.2594 -.3225 .9210 . 2395 .1521 .1120 MACH .0700 .1477 .2199 8790 -.5136 -.4255 -.3660 -.2198 0070. 8.307 .0463 .8210 1.0000 0. .0510 .8555 .3613 .2301 .0453 **3** ຄີ .0230 .3186 .3656 7.0734 7.0587 7.1417 4.0787 -.0208 .7790 . 2230 BETA 1 CABITER FUSELAGE SETA TICK FINGBRIEF FUSELAGE .0080 7830 11.0 muto. £150. -,7880 .0633 . 45 45 145 040. tint + ÷.33.÷ (i) (i) (i) (i) 1 NOTLOSS (i) 17. WHO !!

-1.0973 .3209

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1.15502 1.15333 1.15339 1.15339

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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BETA (5) =

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ALPHA (2) #

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SECTION (110RBITER FUSELAGE	FUSEL A	GF.		DEPCNDENT	UT VARIABLE	RE CP								
87/X	. 5000	.0000	.0230	.0460	.0700	.1120	. 1580	.1660	0771.	.2040	.2510	.3010	.3780	4970	.5740
PH1 180.009	1.0096	.4891	.3198	ਹ _ੈ ਨੈਟਰ.	.1637	. 1956		.3218	1	-1.2911	2737	1635	1024	0802	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
7H1 - 000 -	- 0325 - 0197 - 1762 - 124e	-, C+39 -, 2311 -, 1613	0593 1755 1208	1200 0906 0931 0915	0801 0805 2646 2432	0638 0588 2301 3087 3552	.0202 -2119 -2763 -3230	3766	3878	0041					
	0802 0502 0624 0812	0434	0509 .0427 .0716 .0892 .1308	1861 .0892 .3547	6496 5654 5223 3640	5173 4079 4392 4285	4421 3762 3472 3198	- 3589							
ALPHA (3)	₹ 3.950		BETA (1)	tt	-7.902 M	MACH #	.59694	0	* 595	595.02	٠	- 2385.4	FN/L	ر ه	.8785
SECTION (1) ORBITER	R FUSELAGE	IGE		DEPENDE	DEPENDENT VAPIABLE	SLE CP								
x/L8	. 0000	.0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	4970	.5740
000 .	1.0304	£8584.	9480.	0076	0505	!		0895		0774	0643	0409	0072	.0326	6040.
23.000 40.000			.3529	.1104	.0579	- 1029		1016 0912		0926	0474	0015	.0143	.0250	.0530
55, 060 70, 000 75, 000		.6367	15031 15032 15031 16131	.3374 .3374 .3374 .3150	2000 2000 2000 2000 2000 2000 2000 200	1531 1531 1761 1761		.0330 .0330 .0339			1367 1742 2837	0435	0082 0273 1736	0005 0192 1748	
150.000			.3234	.2061	1331	. 1848		.4684·		. 5656	4833	2038	1243	1145	
162.000 165.000 165.000								9944.	2:50	1.2824	3444	-, 1933	1189	1010	
174.000 180.030	1.0304	.432H	.2050	.1253	. 0895	.1329	.603.	.2334	•	-1.5054	2941	1753	1125	0875	
X/L6	.6520	. 7290	0677.	.8210	.8790	.9210	.9500	. 9990	1.0180	1.0460					
000 .000 40.000	.0331	1700.	0271	0598	0502	0397	.0052		.3566	.0905					

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5740 350 .0585 8 PAGE 14970 .0473 .0342 -.0259 -. 0680 -.0597 -.0528 3780 -.0375 -.0520 -.1247 . 0255 -.0792 .0101 -.0837 -.0747 (XE8844) 2385.4 .3010 -.0865 -.1135 -.2786 -.1720 -. 0223 .0056 -.1569 -.1398 .8510 -.0468 -.1858 -.2193 -.3021 -.3053 -.0346 -.2735 1.1.3 .9990 1.0180 1.0460 .2040 - 0625 - 0707 - 0843 - 0844 - 1485 - 2631 - 2831 - 3968 - 5988 -1.4635 -1.2426 1.0460 . 1961 9524 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .1770 1.0180 .0504 .3387 073-1 -.3482 .1660 -.0692 -.0832 -.0790 -.0469 -.0412 0666. +02+. 8044. .3261 -.3528 -.279+ .9600 -.1954 -.2141 -.1843 -.2971 .59694 . 1580 .5863 .0877 .0172 -.1604 -.2062 -.2585 -.2374 -.2379 -.2095 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .9210 -.1056 -.1427 -.1755 -.0785 -.0250 .0476 .0761 .0901 . 1120 -.0372 -.0457 -.1414 -.1936 .1765 . 1642 .9210 = -3.854 MACH -.0904 -.1035 -.1724 -.2373 -.2241 -.2337 .0739 .8790 .0700 -.0546 -.0621 -.1449 -.1849 -.0324 -.0448 .0108 .1230 .1280 .1494 .1581 . 1328 .1197 -.3111 -.2736 -.2542 .8750 -7.902 .8210 .1014 .1631 .3229 .4724 .3332 .1138 .1971 .0460 .0547 .0547 .0979 .2087 .2329 .2479 -.054! -.054! .0442 .0897 .8210 . 1831 2857 2857 2069 BETA (1) -.0661 .0016 .0487 BETA (2) .7790 .1113 .1765 .1733 .1373 . 0230 .1172 .1569 .3117 .3972 .4134 .4188 3073 2345 .7790 -.0206 -.0057 -.1163 -.0371 2018 2008 2008 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -. 1919 -. 1320 . 7290 -.0363 -.1112 .0080 .5276 -. 0247 . 5635 .439C .0164 -.235a -.163+ .7290 -.0720 .007+ 3.960 .6520 -.2216 -.2174 .0000 1.0634 1.0634 .6523 4.PHA (3) ALPHA (3) PH1 70.000 90.000 110.000 125.000 150.000 155.000 165.000 X/LB

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BETA (2) =

3.964

ALPHA (3) =

FUSELAGE	
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-140A/B/C/R	
11-073(04148)	
AMES	

			4.8785		5740	.0506	.0795								
			•		.4970	.0507	.0337	- 0445	0389	0411	0364	0375			
			FAV.		.3780	.0147	0610.	0651	0625 0805	0611	0611	0575			
			2385.4		.3010	0149	0007	1139	1378 2619	1440	1423	1355			
			•		.2510	0383	0447	2271	2526	3577	2775	2566			
	1.0460		595.02		. 2040	0587		1575 2064	3005	4618 6411	-1.2158	-1.4232	1.0460	. 1093	
	1.0180		# 500		.1770					ţ		·	1.0180	.3020	
	0666.		σ		.1660	0679	0731	0916	1217	.3319	¥068	. 3803	. 3990	, 25	- 2878
LE CP	.9600	2957	.59694	R CP	.1580							.5686	.9600	.0925 .0259 -1838 -2254	2934 2680 2420 2743
DEPENDENT VARIABLE CP	.9210	1698	MACH .	IT VARIABLE	.1120		0693 0362	0173	. 1065	.1530		.1748	.9210	0398 1792 2282	3082 2463 2426 2474
DEPENDE	.8790	0337	.189 M	DEPENDENT	.0700	0304	0370	. 0502	.0557	1109		.1373	.8790	0489 0571 1926 2485 3337	3776 3328 2814 1349
	.8210	.2766			.0460	.0376	. 0512 .0664	. 1183	1332	. 1909		. 1849	.8210	0763 0562 0113 .0055	.0469 .2389 .3481
IGE	.7790	.1576	BETA (3)	JOE JOE	. 0230	.1138	. 1352 1979.	. 2879 245	3039	. 2863		.2527	.7790	0.038 1480 0595 0595	.1060 .1744 .1748 .1608
1: ORBITER FUSELAGE	.7290	. 0208	3.969 BE	110ABITER FUSELAGE	.0080	.5326			.4183			1 1 1 1 1 .	.7290	. 2600 1783	0550 0179
	.6520	0557	3.6		. 0000	1.0723						1.0723	.6520	.0440 .0338 2736 1975	1156 0459 0342 0416
SECTION (x/LB	PH1 165.000 180.000	ALPHA (3)	SECTION (x/LB	PH1 .000	20.000 40.000	55.000	90.000	140.000	151.000 162.000 165.000	174.000	X/LB	1Hd 2000.004 2000.000.000	135.000 135.000 155.000 165.000

	4.8785		.5740	2440. C630.				4.8785		.5740	.0354 .0626
			0.¥970	. 0429 . 0499 . 0445 . 0429 . 0429	n n n					.4970	. 0370 . 0003 . 0561 - 0740
(XEBB44)	# RN/L		.3780	.0084 .0020 .0050 .0656 .0613 .0658				FRV/L		.3780	0030 0239 0878 0574
(XEB	• 2385.		.3010	0248 1295 1463 1463 1463	***			- 2385.4		.3010	0318 0655 1484 1465 2455
	a .		. 25	0433 0801 2573 3377 3290	י נפנים			<u>.</u>		.2510	0650 1296 2791 3545
	595.02		.2040	0630 0783 1122 3510 4439 5282 5911		1.6460	. 0261 . 0261	595.02		.2040	0807 1097 1488 2390 2957 4070
FUSELAGE	* 59		.1770	1731		1.0180	285. 4285.	- 595		.1770	
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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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ď.	AMES	r- *		.0460	.0495	.8210	0297 0004 .0997 .1503	.5094 .2604 .1172 .0912	11 15		.0450	.1395 .1674	2332 2332 2138 1612	.1016		8770.	.8210	0254 .0323
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55		8.0	1) ORBITE	.6520	0748
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57.0 **100** 1231 GC 57. .0978 1.093. 1.090. .0E37 -. 6591 -. 0719 -.0503 Z .3780 -.1243 -.1122 -.1043 .0565 . 82°53 -.0745 -.0575 -.0813 2386.3 .3010 .0278 -.0218 -.1758 -.1741 -.289 -.1580 -. 1433 -. 1504 -.2858 -.2950 -.3517 .03510 -.0004 -.0809 -. 3521 -.2809 -.2901 -.0105 -.0389 -.031 -.215 -.2596 -.3457 -.4523 -.5699 -.7401 .2040 -1.3055 -1.5156 1.0469 593.73 .1770 -.2045 1.0180 -.0049 -.0555 -.0537 -.1436 -.1543 -.1701 .1660 .2050 .3045 9990 .2981 ø .59616 .4635 .9600 DEPENDENT VARIABLE CP -.0010 -.0151 -.0537 -.0596 .1120 .0540 .0985 .9210 MACH .0700 .0536 .0362 .0369 -.0455 -.0329 -.0339 .0078 .8790 4.24 .0460 1271 1271 1010 0482 0191 0177 .0672 .8210 .0724 3 .0230 25.25. 25.15. 20.16. 16.48 16.58 16.58 . 1292 .7790 .1304 BETA SECTION (1) ORBITER FUSELAGE .0800 .1972 .6731 . 7290 .2461 8.039 .0000 1.0123 .6520 1.0123 ALPHA (4) 20.000 50.000 70.000 90.000 90.000 140.000 151.000 151.000 165.000 174.000 X/LB

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柘		12.051	1) ORBITER	.0000			9185	.6520	.2156 .2151 .4922 3776	4970 2315 2199		110R81TER	.0000	.9469					
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(2) = -3.840	DEPE-17.	. 0230 . 0450 . f	145 0320 541	0128. 3674	.1002 .0274 .1342 .0529 .21640018 . .1196 .0608 .	.0436 .13273221 .0509 .11912871 .0183 .23602395 .0313 .3741	(3) • .176	DEPENDENT	330 . 0460 . 0700	2005: 2017:		.0698	0425 .06070533		9000760320	90 .8210 .8790	98 . 0325 . 0282 0110 0329
11.932 BETA	1) OF BITER FUSELAGE	. 0080	59 . 11114 G145	. 7290	.1504	1:32	11.946 BETA	TER FUSELAGE	0830 . 0830	.8189	. 4253 . 3297	. 2768 . 200 . 200 . 150	₹0 .		0600. 1501. 7	0677. 0657. 0	8 .1606 .1098
LPHA (5)	SECTION (1)OF	7LB .0000	PH1 180.000 .9469	7LB .6520	PH1 .000 .1827 +0.000 .2129 70.0005280 90.0003981	120.0003569 135.0002145 150.0002145 165.0001577	PHA (5) = 1	SECTION (1) ORBITER	. cooo	PHI .000 .9557 20.000	40.000 55.000	70.000 90.000 20.000	50.000 51.000	65.000 69.000 74.000	80.000 .9557	.6520	PH1 .000 .1878 .40.000

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AMES 11-073(0A148) -:40A/B/C/K ORB FUSELAGE

TABULATED PRESSURE DATA - OAI48 (14% 11-073-1)

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	4.4			1.0460					593.74		0.000	6	.0145	. 2523. - 2528	2504 4769	6105	1.4019	-1.7522			.1316	#650.		
<u>-</u>	ORB FUSELAGE			1.0180					# 10 10		1770						2372 2434 -	•	1.0180		<u>.</u>	50 S		
- 0A148 (AMES 11-073-1				.999		3610 2772			a		. 1660	9230	.0311	1850	1641 1722 1048	.1707	8	. 2362	.9990				5454	1016.
+8 (AME!	-140A/B/C/R		BLE CP	.9600	1897 2291 2761	2806	2421	2655	.59616	BLE CP	.1530							.4148	.9600		9 6	2328 2597 3335		. 3096
	\$(0A14B)		INT VARIABLE	.9210	2044 2393 2764	3068	. 2643 	2739	MACH #	VT VARIABLE	.1120		.0756	1161	0687 0687 0197	.0033		.0353	.9210		010	2888 2896 3688 1888	2002	3189
SSURE DAT	AMES 11-073(0A148)	.176	DEPENDENT	.8790	2278 2858 3561	3786	. 3389	. IBI :-	.247 M	DEPENDENT	.0700	. 1620	126 126 126	0312	0524 0855	0697		0438	.8790	Ş		- 2858 - 3568 - 4850		- +351 - +395
TABULATED PRESSURE DATA	¥	3) •		.8210	0719 0368 .0238	.1132	4810	.4100	<i>a</i>		.0460	¥0±9.	. 2299	.0371	0232	0130		0160	.8210	6	.0561	1389 1445 1129	. 0476	
TABUL		BETA (3	AGE	.7790	2582 1521 0471	.0193	8160.	1258	BETA (4)	AGE	.0230	400s	3086	. 1822	9730.	6610.		.0159	.7790	9			1060	. 1001.
		11.9%	TER FUSELAGE	.7290	4412	1468	1020	0284	8 1+6.	ER FUSELAGE	. 0080	. 7999			. 11.91			.0760	. 7290	S		4612 3431	2028	0661
FEB 76			1)ORBITER	.6520	5564	247B	1670	1054		1) ORBITER	.0000	== == == == == == = = = = = = = = = =						₹ =	.6520	1877	. 18th	5530 4086	2284	1233
DATE 10 FI		ALPHA (5)	SECTION	א/רפ	PH1 70.030 90.000 105.000	135.000	150.000	180.000	ALPHA (5)	SECTION (X/LB	PH1 .000	40.000 40.000	70.000 70.000	90.000 120.000	150.000	162.000 165.000 169.000	180.000	X/LB	PH1 000.	40.000	70,000 90,000 105,000	20.00 000	135.000 150.000

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AMES 11-072(0A148) -140A/B/C/R ORB FUSELAGE

				\$ B.		5740	?	.1587	. 1429																
				•		0764		.1488	.0493		23-0 1683	1106	085 3		11 0	1520									
				RN/L		.3780		. 1002	0326		2101 -	•	0170		0921	- 1324									
				- 2386.7		.3010		.0612	1155		2235 2236		1594		- 1589	1930									
				٩		2510		.0385	2044		_	3833	3456		3088	3317									
		1.0460		593.74		.2040		.0357	1927	- 3264	- 3971	5156	8239 8239		-1.3581	-1.6963	1.0460		.1256	. 0221					
		1.0180		. 59		.1770							į	357	•	•	1.0180		.4617	.2961					
		0666.		ø		.1660		7440.	1197	1.00/30	2277	1827	.0637		. 1845	. 1440	.9990					4006	- 3252		
	WELE CP	.9600	2623	.59616	BLE CP	.1580									i	. 3 481	.9600		1178	57.50	.2614	5055	4189	3673 3635	3226
	DEPENDENT VARIABLE CP	.9210	3647	MACH	DEPENDENT VARIABLE	.1120		9	.0798	1410	1306	1088	0429			0095	.9210		.0166	5000	71017	5.	- 4860	4200	4816
4.247	DEPENDE	.8790	3042	8.307 M	DEPENDE	.0700		1379	0145	1631	1314	PC + 1 - 1	1124			0871	.8790		<u> </u>		4118			85.52 85.62	
3 1 3		.8210	.3948	5) = 8		.0460		.2289	. 0542 - 174		- 1086	. 10cc	0586			0572	.8210		.0233		2296		۲.	3908	. 1695
BETA (4	AGE	.7790	.0929	BETA (5	AGE	. 0230		3686	1689	0083	100.	1010	0355			0231	.7790		1090.	- 4450	2844		100 E	. 0282	0062
11.941	ER FUSEL	.7290	0537	11.928 B	er fusel	.0080		.7517			0634					.0130	. 7290		.1386	TGT#	3876	!	2789	0968	1419
	1108811	.6520	1082		1.0RB1T	.0000		.8790								.8790	.6520		. 1675 	245	4108	;	2497	1276	
ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LB	IH d	.000 .000	40.030 55.000	70.000	90.000 120.000	140.000	150.000 151.000	162.000	169.000	180.000	X/LB	Ħ	000.	70.000	90.000	110.000	135.000		180.000

ES 11-073(0A148) -140A/B/C/R 0RB FUSE AGE

12		55.000 4.000 900.		7.047	į	さん。	0161	0468													
ON SO			-		į	0/87.	*000 .	がる.	. 1026	. 0936 . 1993	.0428	877		. 0295							
	1		Š			09/5.	0363	0868	. 0536	. 0382 . 0240	.0193	1600		4400.							
(XEBB45)	DABAMETOTE	.000 22.500 4.000	9 1801		20102	2106.	- 9£20	1290 -	0195	0485 1113	0533	0271		0133							
	0		•	1	c	•							,								
		RUDDER BOFLAP R-ELYN	۵	•	8		1883	3521	77.	- - - - - - - - - - - - - - - - - - -	8631	7788		7724							
لما		독명두	597.89		O TO C		2143	4187	2333	3100	1665 2745	8399		9479	1.0460	i i	1911				
FUSELAG			***		0.771						;	3850			1.0180	4004	.2661				
C/R ORB			o	ı	. 1860		2175	- 3603	0997	1784	.6470	!	.7126	.6340	.9990			0004	- 2558		
-140A/B			.89683	BLE CP		•							.8208	ı	.9600	1160	.0584 1093 1468			1596 1506	3285
S(0A148)		828	MACH	DEPENDENT VARIABLE	.1120		. 2456 5456	2463	.0592	3193	.4113			.4075	.9210		1079 1079 1541			- 989.	
AMES 11-073(DA148) -140A/B/C/R ORB FUSELAGE		1078.6800 IN. .0000 IN. 375.0000 IN.	-3.852 H	DEPENDE	.0700		1777	2215	1234	.3263	.3897		;	.3800	.8790		_	2882.		- 106	
¥		= 1076 = 375.			.0460		1265	1i17 .0879	3082	+524	.4951			.4657	.8210		# 82 83 82 83 83	. 2413		21.2	.4816
	ITA	XYRP YYRP ZYRP	BETA (1)	AGE	. 0230		0811 0538	.3341	.5451	.6315	.6369			0084.	.7790			***	. 2866 287 287 287 287 287 287 287 287 287 287	3560	.3331
	REFERENCE DATA	50.FT.		1) ORBITER FUSELAGE	.0080		.3526		. 725¥				i de	225 20 20 20 20 20 20 20 20 20 20 20 20 20	.7290	1913	0425 .0019		. 091 c	.1360	. 1290
	REFE	2690.0000 474.8000 935.0680 .0300	3.961	(1) ORBIT	. 0000		1.1853						1067	1933	.6520	1326	1650. 1650.		. 0623	.0681	. 0590
		SREF LREF BREF SCALE	ALPHA (1)	SECTION	X/LB	H	20.000 20.000	55.000	90.000	140.000	150.000	165.000 165.000 168.000	17¢.000		X/LB	PH1 .000	90.000 90.000	110.000	135.000	150.000	190.000

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PAGE 678

(XEBBYS)	1081.9 RN/L - 3.6441		3010 .3780 .4970 .5740	0230 .0053	.0781041501280176 .0348 .0398 .0829 .0853 .0298 .0719 .1632 .0049 .0478	1140. 4510. 1040	01 83 .0173 .0 %S6	04 .0182 .0432				1061.9 RN/L = 3.0 41		04. 078v. 087c. 01	- 0321 .0024 -	2501440028 .330 10 .0409 .0723
			. 2510 .3	•	34700761 76810348 73510853 68041632	#6#8	746701	6987 .000₩				•		.2510 .3019	1808	30540525 83050910 74991910
Œ	597.89		0,02.	2823. 2823.		4479 8039 -	8534 -	9591	1.0460	. 2338		597.89 P		.2040	•	1,3149 1,3905 1,4068 1,9055
ORB FUSELAGE	•		1660 .1770	. v.	3108 2384 1782 1733	5743	.3060	.6708	.9990 1.0180	1939. 1995.	4203 3385	ŭ		.1660 .1770	122 242 273	. 2663 2408 2571
-140A/B/C/R	.89683	BLE CP	. 1580	ii	iiii.	•	•	Cana	0096	. 1097 . 0613 1389 2302	3103: 2250 2083 3264	.89683	LE CP	. 1580	1 1 :	់ មេ
73(04148)	MACH	ENT VARIABLE	.1120		- 1335 - 1335 - 0220 - 0036 - 2548	.36+9		.4180	.9210	0861 0887 1685 2314	4188 2608 2139 1797	MACH	INT VARIABLE	.1120	2169	- 1638 - 1638 - 1922 - 1923
MES 11-073(0A148)	.188	DEPENDENT	0070. 0	m m c		6 .3533		3931	9678.	1955 2131 2224 2975	5046 3494 2197 0228	4.270 F	DEPENDENT	.0700		1236 1236 0584 0530
∢	. (9.		940	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		. 456		1 .4706	0.8210	93329 03267 20972 111333	1 .2399 4 .4571 9 .5229 5 .5313	# £		0940° 0		0003 0557
	BETA	FUSELAGE	0080 .0830	35660695 0531	. 2448 . 3438 . 3438 . 4214 . 5288	.5799		1165. 48	0677. 06	39 2339 2270 19 0822 04 . 1.480	22 . 2191 3064 37 . 3269 3336 53 . 3346	BETA (SEL AGE	30 . 0230	340850 0796	
	-3.932	1) ORBITER FU	0000	. 1931 . 35	20 20			931 .8284	6520 .7290	.12571939 18750521 01810521 0397 .0004	.0592 .0692 .0726 .1287 .0730 .1453	-3.942	1) ORBITER FUSELAGE	0800 . 0080	'27 .3354	£189
	ALPHA (1) .	SECTION (1)0	x/LB .0		90.000 120.000 120.000 120.000	150.000	162.000 165.000 169.000 174.000	180.000 1.1931	X/LB65	<i>i i ' '</i>	120.000 135.000 150.000 165.000 177	ALPHA (1) =	2 8	X/LB .0000	PH1 -000 1.1727 20.000 40.000	55.000 70.000 90.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

		57.0							. 5228		.5740	. 3288	. 0224			
		0.4970	.0129	.0219	.0283						0.64	.0206	0032	.0585 .0552 .0126	.0080	1.00.
		.3780	0085	0024	.0052				I FRV/L		.3780	0218	0345	.0161 .0126 0056	.0128	. 0088
		.3010	0518	0177	0114				- 1061.9		.3010	0730	0802	0807 1132 2024	2289	1259
		.2510	8634	· 4:	7667				•		.2510	1708	2682	6532 6415 6110	9912	8672
		0402.	8033	8593	9473	1.0460	. 2122 . 1042		597.56		.2040	- 1642	- 2436 - 2436	- 1838 - 2566 - 2566	3713	9177
		.1770	109	.2150		1.0180	.3877 .3162		* 59′		.1770				6	. 03-te.
		.1660	. 4774.	.6307	.6558	. 9990	9	- 3400 - 3400	o		. 1660	1625	2221 2221	0438 0169 1987	.625	.6715
	BLE CP	. 1580			. 750 4	.9600	.0981 .0548 1693 2187	2807 4270 4124 3322	.89660	RE CP	.1580					1877.
	DEPENDENT VARIABLE CP	.1120	.3019		.4093	.9210	0826 1094 3060 3829 4723	5828 4505 4002	MACH	IT VARIABLE	.1120		1222 1222	.1413 .2921	.3427	
4.270	DEPENDER	.0700	. 2929		.3807	.8790	1886 2209 2939 1732	6421 4742 3402 1241	-3.868 HJ	DEPENDENT	.0700	0887	0736	. 1640 . 2845 . 2845	. 2983	
		.0460	. ¥006		.4653	.8210	3262 3193 .0532 .0661	.3766 .3766 .5301	3 = -3.		.0460	0205		. 3999 . 3999	4009	
BETA (3)	lGE 1	. 0230	.5099		.5827	.7790	2312 2201 0081 .0550	. 1507 . 2502 . 2850 . 2976 . 3216	BETA (1)	IGE	. 0230	.0687	2903	. 15437 15437 15758	.5343	
	IR FUSEL	.0080			85±38.	.7293	1932 0575 0107	.1991	010 86	110RBITER FUSELAGE	.0080	.5099		.7163		
-3.942	110RBITER FUSELAGE	.0000			1.1727	.6520	. 1304 . 0051. . 0051.	. 05438 . 0543 . 0553	•	1 JORBITE	.0000	1.2039				
ALPHA (1)	SECTION (X/LB	PHI 140,000 150,000 151,000	162.000 165.000 169.000	174.000 180.000	X/LE		180.000 180.000 180.000 180.000	ALPHA . 2)	SECTION (x/LB	000 ·	40.00 60.00 0.00 0.00	39.000 30.000 140.000	150.030	2000 2000 2000 2000 2000 2000 2000 200

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

LPHA (2) = .010 BETA SECTION () DORITED SHEEL ACT	-	10 = -3	-3.868							C C C C C C C C C C C C C C C C C C C	ŝ		
FUSELAGE.	.0230	0460	DEPENDE	DEPENDENT VARIABLE	BLE CP	2	į	Š	į			1	
	.4617	.3628	.2905	334		.5865		1.0575	. 8602 5088	.3010	.3780 .9081	0.4970	.57 4 0
067T. 065T	8	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460				2	
.07501484 -1347 -20530161 .1402 .0570	\$5::5B	- 2555 - 2445 - 1416 - 1745 - 5255	- 1811 - 1892 - 1251 - 1861 - 2895	0878 0783 0801 1239	. 1222 . 0416 0864 1299	į	.3930	.1352					
.3154 .3184 .3087 .5880	40740	.3602 .3122 .3122	3777 2875 1922	2162 +88 .205 .0973	1856 1634 1699 3231	4021 2836							
BETA (S	ei	.185 MA	MACH =	.89660	ø	= 597.56		# Q.	1061.9	RN/L	•	3.6228
FUSELAGE			DEPENDENT	IT VARIABLE	LE CP								
. 0230	0	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	5150	.3010	.3780	0.4970	5740
. 073 . 092				1482		- 1544 - 1595	• •		1676	0639	0120	.0323	.0307
3275				1137		1930	•	. 2230 2230 2230 2230	. 1755	0541	0072	. 0193	.0435
.3803 .4275 .4786		.1971	. 0657 . 0840 . 1893	.0548 .0548		1222 1094 . 0891	,,,	2623 3776 4060	7209 7143 6833	0893 1220 2038	.0089	.0357 .0357	
.4867	_	.3671	.2679	.3051		.5445		•	. 9473	1572	.0228	.0151	
					6	.6444	. 2575	. 9205	.8578	0489	.0193	1610	
.4720	0	3746	. 2953	.3406	. 1035	.6241	1	. 9433 -	.8538 -	.0314	.0193	.0156	
.7790	g.	.8210	.8790	.9210	.9600	. 9990	.0180	.0460					
1397		2607 -	1834 -	0926 0961	.1140		.4226	.2242 .1187					

(XEBB45)

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DATA -
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ALPHA (2) =

TABULATED PRESSURE DATA - OAIH8 ' AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE
I FEB 76 TABULATED PRESSUR	AMES 1

				RN/L - 3.6228		0462. 0784. 0	8750. 4550. 7	3 .0238 .0534	•	7 .0303 3 .0179	46ca. t	8700.	9200.					
						.3780	0197	.0046	·	.0103	.0127	1010.	.0105					
				• 1061.9		.3010	0783	0417	0906	1518 2201	1279	0670	0672					
				۵.		.255	1810	2720	7798	7885 7871	9650	8498	8745					
	1.0460			597.56		.20%0	1637	1871	2763	4965 5629	7516 9188	8798	-1.0589	1.0460	.2154 .1003			
	1.0180			- 597		0771.						1800	•	1.0180	.3926			
	0666.	Š	₽ 55 55 55 55 55 55 55 55 55 55 55 55 55	o		. 1660	1572	1710	1835 1783	1904	.4519	5913	.6095	0666.			3219 3219	
2 2	.9600	1319 1734 2109	2667 2173 2188 3157	.89560	SLE CP	.1580							.7093	.9600	. 1212	1388 1988 2191	2413	
DEPENDENT VARIABLE CP	.9210	1554 1970 2256	3299 2432 2422 2422	MACH	DEPENDENT VARIABLE	.1120	1	1411	0785 0397	0298 . 1268	.2543		.3354	.9210	0928 1213	6.784 4707	6100	
DEPENDE	.8790	2455 3140 4305	4978 3759 2940 0914	4.247 MJ	DEPENDEN	.0700	1001	1256 1053	0412 0281	0163 .0857	.2189		.2842	.8790	1827	3913 3913 5191	6437	
	.8210	. 1300 . 1300	. 2394 . 4016 . 4492	n		.0460	0	0286 0184	.0277 .0485	. 2033	.3200		.3559	.8210	2553 2341	.0351 .0432	0250.	
胀	.7790	0416 .0295 .0982	. 1780 . 2517 . 2703 . 7775.	BETA (3)	IGE	. 0230	.0613	. 1525	.2621 .2621	. 3069 . 3748	5454.		.470E	0677.	1441	0514 .0050 .0660	.1186	
ER FUSELAGE	.7290	2067 1260	0020 .0547 .0812	38 610	OR FUSELAGE	.0080	.+957			£704.			ት189.	. 7290	3775	- 1848 - 1150	0150	
1.0RBITER	.6520	1137	0220 0127 0192		1 10RB: TER	. 0000	1.1926						1.1926	.6520	- 0284 - 0430	1139	0153	
SECTION (x/LB	PH1 70.000 90.000 105.000	120.000 135.000 150.000 185.000	ALPHA (2)	SECTION (X/LB	Ī.			88		162.000 165.000 165.000		x/La		96.000 105.000		

(XE8845)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

National Column C	ALFHA (2		619	BETA (3	# 	4.247										
1.920 1.920 1.920 1.920 1.920 1.920 1.010 1.0460	SECTION	(1)00811	ER FUSEL	AGE		DEPENDE	NT VARIA									
1 1 1 1 1 1 1 1 1 1	X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
1.00 1.00	PH1 165.000 180.000	.0005	. 0823	.2538 .2758	.4146	1816	3975	3278								
1.1935 1.6936 1.2936 1.1936 1	ALPHA (3			_				.89837	ø		9.08					3.6099
1.1935 1.6936 1.2936 1.1936 1.1936 1.1936 1.1356 1	SECTION		ER FUSEL.	AGE		DEPENDE	NT VARIA									
1.1935 .6635 .2151 .0940 .0074 .0726 .1086 .1186 .1864 .1186 .1186 .1186 .1186 .1186 .1186 .1186 .1864 .1186 .1186 .1186 .1186 .1186 .1186 .1186 .1864 .1186 .1186 .1186 .1186 .1186 .1186 .1186 .1864 .1186 .1186 .1186 .1186 .1186 .1186 .1186 .1864 .1186 .1186 .1186 .1186 .1186 .1186 .1186 .1864 .18	X/LB	. 0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1580	0771.	. 204 0	.2510	.3010	3780	07c4.	5740
1.935 6.53	PHI															
	000.	1.1935	.6635	.2151	0.00. 0.10.	.0078	9620		0912		1037	1366	0529	. 0039	. PF 35	.0862
	1000 1000 1000 1000			4014	1638	.0612	0034		0.0		1366	1685	0422	.0155	.0535	#5-
	22.000			OBS.	8/12	1735	. 0948		1410		1.113	F 417.7	6441	1000	0 11 11	
- 4152 - 2925 - 2055 - 2701 - 5080 - 2557 - 6176 - 3161 - 09594 - 2560 - 2050 -	000.06		583	. המנו	4119	100	1570		0010		2000	6222	2057	- 0353		
	120.000			ずず	3280	2225	.2571		20802		2567	6176	3161	+060		
	150.000			.4152	.2925	.2055	.2701		. 6028		3504	8867	430C	. 0056	0229	
	151.000									.3013						
. 6520 . 7291	165.000								972			7285	¥. 1 ×	. 0327	0162	
1 000	174.000	1.1935	.5690	.3374	3555.	.1877	.2619	.7395	.5359	•	-1.0958	9269	£. 50	10301	9026	
.05005605051736156509001272460803217208150395373021730915039503950310711076107110761071107610711076107120905158911991199125715491585250416851696274417621596169627441762191617620024002419161762191617621090191617621007135731700022016020313330004713573170	X/LB	.6520	.7290	.7790	.8210	.8790	.9210	0096	.9990		1.0460					
. 05	Ŧ															
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11-073-1		σ		.:660	0820 0921 0938 0718	98311. 98311.	celc.	5799	. 39eg	6 8 8 8	. 2859 - 2859 - 2859	O		.1663	5890	- 1276 - 139?
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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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1) ORBITER FUSELAGE	.0080		5375	.7293	.0085 2759 12+9 0065	8 07e.7	110RBITER FUSELAGE	.0080	.7998		.6332		
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AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE

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AMES 11-0 3'CA148 -1424/8/0 P 098 TUSELAGE

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171.	DEPENDENT	6793	2131 2913 3762	-,4914 -,4306 -,3555 -,1575	.243	DEPENDENT	.0700	.1097	. 0787 7870	.03355	0008 .0236	.0539		.0915	.8790	1113	2781 3558 4713	5451 4512 3878
		.8210	.020: .0218 .0139	.3172 .4165	t		.0460	· · ·	1877	- 67	. 1106	.1513		. 1563	.8210	3968 3968	0541 0657 0473	.0178 .2663 .3502
BETA (2	AGE	£77.	1584 1110 0164	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	ETA (3	ASE	. 0230	3535	3335	#10E.	. 2557	.2309		.2316	.7790	.0375	2349 1823 1087	0552 .0529 .0958
7.973 8	ER FUSELAGE	CE21.		2317	978 878	ER FUSELAGE	.0080	.79+0			.329;			3845	.7290	.0957	5865	0359
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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				3.5858		5740	¥15.	.2599							
				•		0.4970	. 1809	1788	0375 0579 2578	0923	0440	0116			
				FOV/L		.3780	.1028	.1155	1499 1657 4117	2299	2155	1914			
				1062.9		.3010	.0530	.0709	1933 2514 5423	5135	5555	5553			
				•		.2510	.0300	.3151	4236 5425 6663	5770	5900	5965			
		1.0460		597.97		.2040	.0537	0546	0598 1402 2524	3789 5309	8339	7023	1.0460	. 1444	
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	R CP	.9600	3143	.89653	LE CP	.1580						.6529	.9600	.1162 .0136 1646 1941	2256 2625 2876
	DEPENDENT VARIABLE	.9210	++13++	MACH	DEPENDENT VARIABLE	.1120	ŕ	101.	1483 1400 1400	1414		. 1466	.9210	1008 1184 3435 3570	- , 4255 - , 3345 - , 2880
4.243	DEPENDE	.8790	2289	-3.856 N	DEPENDEN	. 0700	. 2264 2364	.2867	. 1861 . 1603 . 0595	.0236		.0338	.8790	0743 1167 2596 2686	3802 3846 3357
		.8210	.3179	E-		.0460	.3331	#.007 7.007	. 2989 . 2545 . 1465	.0798		.0746	.8210	0217 .0035 0096 .0290	. 1265 . 1984 . 2902
BETA (3)	1GE	.7790	.1049	BETA (1)	IGE	. 0230	-4992 	. 6202 1930 1931	.4915 .4286 .3002	. 1662		. 0953	0677.	. 1181 - 1784 1784 0621	0008 .0093 0169
7.978 81	ER FUSELJ	.7290	0777		TR FUSELA	.0080	. 9228		. 5622			. 2582	.7290	.1709 7334 5800	2831
•	1) ORBITER FUSELAGE	.6520	105¥ 189¥	= 11.950	1.10RBITE	.0000	1.0957					1.3957	.6520	. 21.77 . 21.35 . 31.67 . 31.69	3749
ALPHA (4)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	א/רם	1Hd	10.00 000.00 000	90.000 180.000 000.000	150.000	162.000 165.000 169.000	174.000	X/LB	000000000000000000000000000000000000000	1120.080 150.080 150.080 160.080

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45)	RN/L		.3780	.0839	187! 3027 1840	1958			RN/L	3780	
(XE8845)	1062.9		.3010	.0576	2391 4233 5035	5264			1062.9	3010	
	•		.2510	.0326	5445 7378 6062	6166				0.55	
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ORB FULLLAGE	= 597.97		.1770			.1788	1.0180	.4187	= 597.	1770	
	σ		.1650	.0843 .0772 .0756 0279	0057 .1377	.5131		4316 3039	a	1660	.0748 .0502 .0518 .0880 .0782
-11 0A/B/C/R	. 8 9653	د.	1580		•	. 5126	. 3600	2074 2074 2074 2074 2506 2467 3478 3124	.£ 3653	E CP	
		T VARIABLE	.1120	. 1224 . 1392 . 0597	.0808 .1252 .1422	Ę.	.9210	- 1232 - 1419 - 3995 - 4070 - 4869 - 5020 - 4201 - 3968 - 3968	n	VARIABLE	. 1024 . 0524 . 0345 . 0082 . 0195
AMES 11-073(0A148)	178 MACH	DEPENDENT	.0700	. 2325 . 2169 . 1408 . 1799	.0564 .0159 .0007	6	.8790	0720 1203 3524 3558 4584 4584 4274 3864 1501	. 259 MACH	DEPENDENT	.2193 .1850 .1539 .0317 - .0181
AMES			09+0	.3413 .3320 .3320 .2486 .1855			.8210	0203 0076 0890 0473 0071 3742 3490	# .0	0940	7 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	TA (2)	į.	0530	.5053 .5167 .5256 .4399 .7689	.3208 .2394 .1564	Ē	0677.		A (3)	نڌ . 0230	
	31 BET	DE TESONAL +	.0080	.93+3	1510	o M	.7290	.1761 .7449 .5972 .2959 .2225	O BETA	FUSELAG	.9162 .2538
	11.961	110981756	. 0000	1.1065		 		.2233 .2358 4682 - 3513 - 2030 - 1587	11.950	1)ORBITER FUSELAGE.	1.0888
	ALPHA (5)	SECTION :	X/LB		92.000 120.000 140.000	151.000 162.000 165.000 169.000 174.000		PHI 	ALPHA (5) =	SECTION (1	PH1 . 000 1 20.000 40.000 55.000 70.000 90.000

				8		<u>#</u>	_		
	842)			.3780	1927	1764	2071		
	(XE8845)			.3010	5266	5436	5474		
				.2510	5886	6012	6035		
				.2040	6189 9901	9764	6677	1.0460	. 1082 . 1082
1)				.1770	.0703	.1073		1.0180	. 3910 . 3910
11-073-	C/R ORB	,		. 1560	.3937	1881	.4836	.9990	3123 3198
B (AMES	-140A/B/		BLE CP	.1580		:	.584 <u>0</u>	.9600	.1132 .0073 .5020 .5376 .5957 5551 4999
A - 0A14	(0A1+B)		DEPENDENT VARIABLE CP	.1120	.1227		.1479	.9210	- 1216 - 1401 - 4982 - 5343 - 6419 - 5602 - 4833 - 4157
SURE DAT	5 11-073	4.259	DEPENDE	.0700	0106		.0152	.8790	0679 1112 3914 4456 5605 5577 4570 3992
TABLATED PRESSURE DATA - DAIMB (AMES 11-073-1)	المِيَّا الْمِيَّادِ الْمِيَّادِ الْمِيَّادِ الْمِيْدِ الْمِيَّادِ الْمِيْدِ	b		.0460	. 0665		.0740	.8210	0269 3016 1129 1103 0556 0028 2289 3444
Trevi		RETA (3)	AGE	. 0230	. 1286	,	5711.	.7790	
			ER FUSEL	. 0080			.2214	.7290	. 1729 7523 5926 2901 1431
is B		≖ 11.950	1108911	.0000			1.0838	.6520	.21640 - 4477 - 3461 - 5149 - 1509 - 1540
BBy C: Biwo		ערטש (פּוּ	SECTION : 110PBITER FUSELAGE	87/X	FHI 140.000 150.000 151.000		174.030 193.000	X/LB	PHI -0.00 -0.0

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PASE

(XE8B46) (05 AUG 75)

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

	55.000 4.000 .600	4.8516		.5740	0665	1356								
		•		.4970	0557	1412	9101	0817	0105		0207	0410		
C DATA	SPOBRK L-ELVN MACH	RN/L		.3780	0762 -	1662 -	0599	20405			0585 -	0760		
PARAMETR1C	.000 4.000	- 2387.4		.3010	8.60	- 196t	-,0027	0394			1253	1324		
_	RUDDER ** BOFLAP ** R-ELVN **	a.		.2510	. 1235	2693	-,1345	1624	3156		2356	2308		
	587	593.39		.2040	1514	3359	1524	1757	1956		9306	-1.1748	1.0460	. 0319 . 0319
		= 59		.1770						7.5% 67.8%		Ť	1.0180	5.5. 15.5. 15.5.
		σ		.1660	1771	3736	1510	0094	.5599		.5700	.3626	.9990	-, 3438 -, 2612
		.59592	BLE CP	.1580								. 7008	.9600	. 0472 . 0369 . 1137 . 1596 . 2060 . 1628 . 1628 . 1401
	829 829	MACH	DEPENDENT VARIABLE	.1120	600	3105	1207 . 0862	.1360	3505			.2913	.9210	0942 0819 0471 0935 1378 1497 0501
	.0000 IN. .0000 IN. 375.0000 IN.	158	DEPENDE	.0700	2237	3068		.2360	.3487			rara.	.8790	1324 0546 0576 1403 1595 0876
	1076.6 .0 .375.0	-7		.0460	2211	2244	. 2365 . 2365	.3359	.4290			.3400	.8210	1825 1913 .1984 .1970 .3093 .4659 .3267
Z.	XMRP YMRP ZMRP	BETA (1)	V GE	.0230	2227							6244.	.7790	. 1432 . 1541 . 1546 . 1546 . 1546 . 2852 . 2852 . 2857 . 2857 . 2857
REFERENCE DATA	SO.FT. IN. IN.		R rusel	.0080	.1325			.7395				.7105	.7290	1136 0164 .0304 .0808
REFER	2650.0000 474.8000 936.0680 .0300	180° +-	SECTION (1) ORBITER L'USELAGE	.0000	1.0078							1.0078	.6520	1002 1927 .0691 .0375 .0375
	SREF = 2 LREF = BREF = SCALE =	ALPHA (1)	SECTION (X/LB	PHI 000.	£0.000	70.000	90.000	140.000	151.000	165.000 169.000	180.000	X/LB	PHI .000 70.000 90.000 105.000 110.000 150.000 155.000 165.000

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1 1 1 1 1 1 1 1 1 1	169		.8516		.5740	0555	1026									.8516		.5740		BC10*-	
10 FEB 76 TABLANTED PARESURE DATA - OAI-96 (JAKES 11-0773-1) 10 FEB 76 TABLANTED PARESURE DATA - OAI-96 (JAKES 11-07730-149) - INDAVABLE CP CEPLOZDNI VARIABLE CP CEPLOZDNI VARIABL	PAGE				٠4970	0407	0966	.0745	9600		28.	00!8			,	,		.4970	0381	•	.0502 .0392 .0104
10 FEB 75		16)	R		.3780	- 0530		.0296	0210		0220	0324						.3780		0639	.0063 0122 0376
10 FEB 76		(XEBB	2387.4		.3010	. 1770	1349	0424 0752	6060		.1037							.3010	0743	0905	
1		,			.8510	•			-		.2116	.2002				•		.2510	•	153	
10 FEB 76 ANCE 11-073(OA196) -1940-86-CR ORB FUSELAGE CODO			39		.2040	- 133 - 133	1705 2645				. 9333	1.1534	1.0460	. 0387	,			.2040	~. 1295	2155	
10 FEB 76 AMES 11-073(0A148) - 140AAB/C/R ORB AMES 11-073(0A148) - 140AB/C/R ORB 1100 (1) CPB 1EF USELAGE COOD	_	JSEL AGE			.1770					. 1558			1.0180	.2522				.1770			
10 FEB 76 10 FEB 76 110 FEB	11-073-1	ORB B	œ		.1660	1574	2 037 3007	1769 1079 1048	5000	3	.5596	.4668	0666.	. F		o		.1660	1539		1930 1930 0546
10 FEB 76 10 FEB 76 110 FEB	(AMES	140A/B/C	. 5959 2		.1580							.6928	.9600		2454 1992 1615 3016	. 59592		. 1580			
10 FEB 76					.1120		2375	1394 .0093 .0389	5057.	96.		.3179	.9210					.1120		2215	0705 0589 1418
10 FEB 76 10 FEB 76 1100 (1) OFB ITER FUSELAGE 1100 (1) OFB ITER FUSE	URE DATA	-		DEPENDEN	.0700				, c.	9197.		.3102	.8790	1309 1507 0705 1218			DEPENCEN	.0700	+661	7.025 0.025 0.025 0.025	0332 0332 .0093
10 FEB 76 TABULAI 10 (1) = -3.953 BETA (2) 1100 (1) GRBITER FUSELAGE 1000 .0000 .0230 1000 .0030 .0135 1000 .0309 .0222 .4301 1000 .0309 .7772 .4757 1000 .0309 .0652 .1780 1000 .0309 .0652 .2159 1000 .0309 .0650 .2159 1000 .0309 .0650 .2159 1000 .0309 .0650 .2159 1100 .0309 .0650 .2159 1100 .0309 .0650 .2159 1110 (1) C781 TER FUSELAGE 1100 .0309 .0650 .6230 1100 .0309 .0650 .6230 1100 .0309 .0650 .6230 1100 .0309 .0650 .6230 1100 .0309 .0650 .6230 1100 .0000 .0309 .0650 .6230 1100 .0000 .0309 .0650 .6250	ED PRESS	APIES	Ħ		.0460					,		.3870	-		.3479 .4293 .4175			ğ	1755	1771	. 0335 0335 0888 0888
10 FEB 76 1100A (1) 078B1TER FUSE 1100A (1) 078B1TER FUSE 1100A (1) 078B 1 FF FUSE 1000 1000 1000 1000 1000 1000 1000 10	TABULAT		~	, H	.0230					9866.		.4767	.7790	1406 1478 .0682 .0672	2159 4775: 4775: 1745:	M	,GE	.0230	1767	1526 5209	. 3063 . 3063 . 189
10 1 10 1 10 10 10 10 10 10 10 10 10 10				R FUSELA	.0080	.1737		.6022				.म्हा	.7290		.1080			0000	1621.		.4501
10 1 10 1 10 10 10 10 10 10 10 10 10 10	76			1) CRB1 TEF	. 0000	1.0528						1.0528	.6520	0964 1715 0201	.0338	14	1)C381TE	0000.	1.0512		
			1 1	-	X/LB			55.00 0 70.000 90.00 0	120.000	150.000	103.000	174.000	X/LB		110.000 120.000 135.000 150.000	-		87/X.	PH1 .000	20,000 40,000	10.000 10.000 10.000 10.000 10.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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		ic							4.8516		ũ	0596	0439			
		0254	.0101	.0148	.0148						6970	9427	0499	. 0374 . 0262 - 0266	0226	0078
· •		3780	0293	0250	0241				RW/L		3780	0541	0506	0086 0228 0821		. 0489
		.3010	0936	0946	0891				2387.4		3010	.0792	0679	0843 1227 2952	.1108	.1108
		.2510	2555	2000	1855				•		2510	1122 -	. 1268 -	2455 - 3002 - 3416 -	- 9032	. eiei .
		.2040	3509	9263	-1.1335	1.0460	. 0263		39 P		.2040	-	•		4348 5542	. 82F26
		.1770		.0913	•	0810.1	.3770		- 593.39		.:770	• •	fı	111		1.0880
•		. 1660	1804.	.5219	.5090	.9990	1	3613 3055	o		.1560	1649	2098	2328 2760 1934	.2908	9654.
	ALE CP	.1580		į	• 6/0·	.9600	.0501 .0089 1589 1973	3076 2425 2071 2984	.59592	es ce	.1580	• •	• •	* * * *		2609.
	DEPENDENT VARIABLE	.1120	.2758		.3328	.9210	0958 0812 1715 2314	3068 1977 1851 1939	3	T VARIABLE	.1120	2019	2010	1359 1521 .0208	.1998	
.188	DEPENDE	.0700	1282		.3236	.8790	1309 1530 1181 1810	3701 2687 1999 0431	269 MACH	DEPENDENT	.0700			1229 1055 . 0193	.215¥	
		. 0460	.3737		. 3953	.8210	1833 1792 .0477 .0655	.4594 .4594 .4719	5		.0460		- 1984 - 1226		.3070	
BETA (3)	AGE	. 0230	.4833		1064.	.7790	1388 1471 0308 .0258	. 1392 . 2323 . 2566 . 2450 . 2540	BETA (4)	H.	.0230			. 1037	.3384	
	DORBITER FUSELAGE	.0080			.7244	.7290	1075 0828 0279	.0311		R FUSELA	.0080	96+1.	•	.2781		
-3.951		.0000			1.0512	.6520	0923 1436 0374 0037	.0469 .0462 .0462 .0381	-3.958	DOPRITER FUSELAGE	.0000	1.0376				
ALPHA (1)	SECTION (X/LB	PHI 140.000 150.000 151.000	165.000 169.000 174.000	180.000	X/LB	PH1 . 000 . 000 70.000 90.000 105.000	120.000 135.000 150.000 165.000	ALPHA (1)	SECTION C	X/LB		55.600	90.000 120.000 140.000	150.000	162.000 155.000 169.000 174.000

TABULATED PRESSURE DATA - CALMB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

(XE8846)

PAGE 693

		F7740	2				4.8516		5740	0719	.0306						
		12.64°	0017				Ħ		0.64		. 0399	.0270	6170.	.3562	. 0536		
		.3780	0399				RN/L		.3780	•	- 6420.	0200	i	- 4160.	- 8870.		
(XE8846)		.3010	0978				2387.4		.3010	- 8460	0542 -	0962 1377 3450	- 1517 -	- 1519 -	1381 -		
		9510	1949				a.		.2510	1262	1154	255931493936 -	2734 .	2419	2331 -		
.1		.2040	-1.1219	1.0460	.0033		593.39		.2040	1555	1753		5170 6309	9933	-1.1473	1.0460	.0905
r USELAGE		.1770		1.0180	.3405 .2401		# 50		.1770				2645	1769	•	1.0180	.3324
		.1660	.4843	0666		3645 3303	o		.1660	1790	1883	2705 3363 3365	1494	.3731	. 3921	.9990	
	ABLE CP	.1580		.9600	.0018 .0018 1685 2131	3764 2937 2628 3093	. 59592	BLE CP	.1580					į	<u>.</u>	.9600	. 00480
	ENT VARIABLE	.1120	.3157	.9210	0891 0800 1422 2081	3987 2776 2809 2819	насн =	NT VARIABLE	.1120	2111	1972 2068	1942 2270 1061	.1029		.2725	.9210	0938 0787
692.4	DEPENDENT	.0700	.3056	.8790	1304 1541 1571 2243 3660	4929 3780 3064 1569	8.335 M	DEPENDENT	.0700	2350	2277	1873 1933 1097	.1161		.2624	.8790	1320
*		.0460	.3820	.8210	1867 1698 .0076 .0033	.0552 .3031 .4757	5) = 8		.0460	1952 1949	2127 1697	1543 1403 0050	.2:91		.3286	.8210	1983 1689
BETA (LAGE	. 0230	. 4825	.7790	1410 1343 0681 0161	.0.65 .1578 .1923 .2034	BETA (5	AGE	.0230	2033	1234	0032 .0468 .1553	.2847		.4312	.7790	1426 1302
-3.958	1) CRBITER FUSELAGE	. 0080	.6931	. 7290	1154 1060 0605	0282 .0503	-3.973 B	1) ORBITER FUSELAGE	.0080	.1318		. 1011			.6205	.7290	1165
u -	(1)CRBI	0000	1.0376	.6520	0952 1196 0532 0249	0246 .0159 .0192	ti		. 0000	.9892					. 98 92	.6520	1034
ALPHA (1	SECTION	X/EB	PHI 180.000	X/LB	PHI .000 .000 70.000 90.000 105.000	125.000 135.000 150.000 165.000	ALPHA (1)	SECTION (X/LB	.000 20.005	55.000	90.000 90.000 120.031	150.000 151.000 162.000	165,000 169,600 174,000	180,030	x/:e	000 000 000 0+

(XE8846)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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BETA (5) =

ALPHA (1) = -3.973

1511758 15322309 159042863462 15703536 15503536 15503536 155042863462 155042863462 155042863462 155042863462 155042863462 15501356115811580208 1550115811580208 1550115811580208 155011580208 155011580208 155011580208 155011580208 155011580208	758 2309 284034623462 5258 5059 5059 5059 5059 5059 5059 5059 50	(1) OPBITER FUSELAGE.	ER FUSELAG .7290	8	£.	.8210	DEPENDED.	DEPENDENT VARIABLE	LE CP .9600	0666	1.0180	1.9460					
F236 F236 F236 F236 F236 F236 F236 F236	ESS - 3462 ESS 5356 ESS 6.3 RN/L = 4. CP	1386109603281947 0927078404522542 031902694115	109603261947 078404522542 031902694115	03261947 04522642 02694115	1947 2642 4115			. 1651 . 2332 . 2979	1758 2309 2840							••	
CP	CP CP CP CP CP CP CP CP	05890835051715026287 - .0534 .13565215 - .07430178 .0922 .42684644 - .0389 .11682884 - .0313 .0287 .1679 .3405	0835051715026287 .0534 .13565215 0178 .0922 .42644644 .1168 .3405 .3405	.051715026287 .0534 .13565215 .0922 .42684644 .1168 .3405	.15026287 .13565215 .42684644 .3405		1111	.4990 .3760 .4053 .3853	4286 3536 3258 3099	- 3482 - 3482							
1580 1660 1770 2510 3010 3780 4970 -1350 -1192 -11021 -1021 -10493 -10208 -1597 -1512 -1512 -1545 -15262 -15262 -1545	1355	050 BETA (1) = -7.888 HACH	BETA (1) = -7.888	(1) = -7.888	-7.888		၌		.59634	G		89.	<u>.</u>	2386.3		•	.8479
.1580 .1650 .1770 .2040 .2510 .3010 .3780 .49700721020813550208020815970208020805830583058305830583	1356146611921021072704930208151515161021072704930208151615160923071905930508090305040513056405130564050115161516056405010501	SECTION (1) ORBITER FUSELAGE DEPENDEN			DEPENDEN	DEPENDEN	~	T VARIA									
1355119210210727049302081597151220811545092307190583	135511921021072704930208159715120223071905930593059305930593059305930593055405540554055405540551157515740554055405920501	0000 0000 0000 0000 0000	. 0230 . 0460	.0460	99	.0700		.1120	.1580	.1660	.1770	.2040	.2510	3010	.3780	.+970	57.
226205831545092307190583	256225730543052307190583 0462095213190201 .0246 .0533 084055213190201 .0246 .0533 15751634 .0041 .0397 17872311219106920501	1150	06681150	.06681150	•	1366				1335		1192	1021	0727		0208	0207
	09620503131902760246050315390564004116340564004106921782223110692	017009551701 20104551287	0955 0427	0955 0427	1 1	1701		1948		2262		2081	1545	0923	·	0583	048
26991552089215520892								•		5067	•	-1.1164	2969	1702	- 0830 -	0627	
. 5138 4617 3990 1552 0892 1892 1711 11164 2969 1702 0930 5067	.1711 -1711296917020930	1.0335 .5785 .3256 .5787	.3226 .2357	.2357	22.	1797		.2037	.6520	2972		-1.3642	2719	1612	0968	0699	
. 51384617399615520892189218921711 -1.116429691702093065202972 -1.3642271916120968	.5067296917020930 .50675067296917020930 .5057296916120968	. 6520 . 1290 . 077. 0621. 0529.	.7790 .8210	.8210	8210	.8790		.9210	.9600	0666.	1.0180	1.0460					
. 5138 4617 3990 1552 0892 1703 1892 1711 -1. 1164 2969 1702 0930 5067 5067 1. 3642 2719 1612 0968 0960	. 1892	09520673105314881102 09530951009814320249 059709510667 .18660502 05470421066718650502	057310531988 10481519 0951 .0088 .1932 0421 .0657 .1866 163 .3208	- 1488 - 1519 - 1519 - 1856 - 3206	72.00 73.00 70 70 70 70 70 70 70 70 70 70 70 70 7	- 1102 - 1310 - 0249 - 0502 - 1265		1835 0562 0396 0883	.0521 0233 1084 1628 2016	į	. 2965 8465	. 0592			·	1	
.5138	.5067 .5067 .5067 .5067 .5067 .5069 .800 .800 .800 .9990 .1009 .0521 .9995 .1009 .9995 .9996 .9995 .9996	08560064 .1845 .47831818 0501 - 2114 .8154 .41501603	.006+ .1845 .47831818 .2278 .41121603 .235 .7815. 4785	.47831818 .41121603 .24541577	1818 1603 1577			1497 1108 0885	1812 1844 1588	424. 426. 5.00.							

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BULATED PRESSURE DATA - 0A148 : AMES 11-073-1)

AMES 11-073(0A148) -110A/B/C/R ORB FUSELAGE

-.0018 -.03+0 .4970 .0218 .0204 -.3222 -. 0268 -.0237 -.0268 Z .3780 -.0026 -.0265 -.041 -.0589 -.0537 -.0601 2386.3 -.0579 .3010 -.0579 -.0896 -.2222 -.0563 -. 1273 -.1311 - 1266 -.1795 -.2125 -.2589 .8510 -. -.0858 -.2396 -.3460 -.2652 -.1043 -.1261 -.1366 -.1366 -.1549 -.2364 -.2603 -.3305 .9990 1.0180 1.0460 .2040 -1.0859 -1.3138 1.0460 .0968 594.08 1.0180 .1770 .1049 .1158 .3598 -.1181 -.1392 -.1856 -.0927 -.0714 -.0633 . 1660 .4626 .9990 -.3370 .4991 3984 9600 1580 - 2973 . 39634 0616 0066 1258 1796 2276 9600 6334 DEPENDENT VARIABL: CP 2288 2153 1860 2894 DEPENDENT VARIABL: CP .9210 -.0502 -3.865 MACH = .1120 -. 1813 -. 1356 -. 0557 . 0558 . 0731 .2515 -.0785 -.0594 -.0783 -.1322 -.1798 -.2116 -.1580 -.1405 -.1327 .2394 .9210 .1122 -.1189 -.1449 -.1160 .0469 .1021 .1372 .8790 .0700 -.1124 -.1368 -.0732 -.1245 -.2042 .8790 -.2591 -.2191 -.1886 -.0143 -7.888 .8210 £75. .0460 -.0837 -.0563 -.0395 .1237 .1886 .2379 .3158 -.1522 -.1475 .0901 .1246 2850 .8210 .3448 .3768 .3100 .3471 BETA (1) BETA (2) -.0035 -.0018 .1744 .3174 .3910 .4369 -.0959 -.0972 -.0372 .0326 .7790 .1695 .0230 4308 .7790 2470 2470 2429 2120 1985 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0036 .7290 .0000 .3605 .5970 -.1308 5839 -.0616 .7290 .0052 .0594 .0611 .070 .060 -.0513 -.0514 .6520 .0000 -.0303 -.0729 -.1248 -.0765 1.0741 -.0076 -.0062 -.0162 .6520 -.0485 1.0741 ALPHA (2) 165.000 180.000 20.000 55.000 73.000 93.000 120.000 140.000 151.000 165.000 165.000 189.000 .000 70.000 90.000 1105.000 1135.000 125.000 125.000 125.000 125.000 125.000 125.000 X/LB X/LB

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-.0069 -.0121

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575 -.0055 -.0167 .0091 Ę ±970 .0056 -.0165 .000 -. D14B -.0148 4970 - , 8382 1.10.1 よろに -. 0355 -. 0355 -. 0487 -. 0209 .3782 1.94 二.1.11 - 5847 7.547 E.13.1 -.03:3 3787 CEBRE 2356.3 -.3911 -.1172 -.2354 .30:0 .30:0 -.0504 -.0377 -. 1239 -. 1215 -.0561 -.0377 -.2518 -.2512 -.2979 -.0765 -.0899 .2510 -.2+19 -.3819 -.0953 -.2399 -. 2294 .2510 -.36-7 -.0831 Œ -1.0773 Sport. 111111 10000001 1000001 1000001 1000001 -1.2938 2040 1.0463 554.08 59t . 08 FUSELAGE -.0084 .1770 3704 .1770 1.0180 -.1206 -.1276 -.1375 -.1377 -.1491 9 .4622 9990 . 1**66**0 3678 .1650 1451 O -: #04/8/C/P .0608 .0061 -.1572 -.1950 .2783 .2457 .221 .2913 .59634 .1580 .6245 .9600 .1590 . 59634 DEPENDENT VARIABLE CP DEPENDENT VARIABLE OF -.2831 -.2122 -.2131 -.234 .1125 .9210 # 104% 840.1 .1120 AMES 11-073:CA148) .2127 .2520 MACH 0015. -.1169 -.1333 -.167 -.0145 .0109 .0377 .2213 . 0700 9790 16: ...052 ...052 ...052 ...0451 ...0834 ...0834 - 1519 - 1440 - 0399 - 0580 - 0631 1526 3528 4127 .0463 .2875 .8210 COMPO m -.0318 -.0391 -.0333 -.2348 -.275 -.3161 - 0916 - 0916 - 0677 - 0025 1.000 1. . 2233 3841 .3757 .7790 . 0230 BETA BETA 110PBITER FUSELASE I JORBITER FUSELAGE .080 1111. -.1535 . 2545 . 8085 .3597 .7253 -, 3575 .000 .0733 Cotto. -.0356 -.0606 -.1446 -.0907 .0026 .0030 3000. 1.0816 . 3816 -.0338 SECTION C ALPHA (2) (i)

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	
DATE 10 FEB 75	

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(XE8845)

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

3740 .4970 -. 0268 -.0306 -.0535 .3780 -.0568 -. 0599 2386.3 .3010 -.1328 -. 1335 -. 1260 -.2418 .2510 -.2403 -.2841 -.4813 -1.0855 2040 1.0460 -1.2839 594.08 -.1417 1.0180 .177C. .3651 . 1660 .9990 2622 .4027 4195 -.3651 0 .1580 .0620 .0074 -.1692 -.2170 -.3409 -.2918 -.2695 -.3029 .9600 . 5569 .59634 DEPENDENT VARIABLE CP .1120 -.0786 -.0709 -.1463 -.2082 -.3700 -.2872 -.2995 -.3119 . 1539 .2423 .9210 HACH 0070. . 1462 .2173 .8790 e. 306 .0460 .2320 .2718 . 9210 .3177 . 3236 .3559 TOPRITER FUSELAGE ETA TA .0380 .5656 11.4 C -17.1 + 1 (†) (-) .069 OFFICE ON A PHA - PY \$5555555 \$5555555 \$5555555 \$55555 \$55555 \$

57.40 -. 0293 0.64 -.0185 -.0199 -. 9420 -. 9490 -. 5787 3780 -.0422 -.030€ -.0713 -.1168 -.1334 -.2810 .3010 -.0499 -.2612 -.3011 -.3584 .2510 -.1032 -. 1135 . 2040 - 1213 - 1398 - 1588 - 3020 - 4496 - 55:3 - 58:3 3771. . 1660 - 2034 - 2397 - 2915 - 2857 .1160 .1580 DEPENDENT VARIABLE CP -.1567 -.1561 -.1561 -.1736 .1120 . 9690 .0709 03-0. moas ouu toocare **:** Bow 1307 u mar lide ÷ ; u) th

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BC BBC CT (1)

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AMES 11-073104148) -1464/8/C/R ORH FUSELAGE

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	.3010	:502				- 2366.0		.3010	0392	0056	- 0774 - 3064	2095	1959	- 6771		
	.2510	2730				٩		.2510	0598	0432		-,4893	3431	2958		
	.2040	-1.2897	1.0460			бE.		האסט.	0775	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3460 5697	.2857	1.5146	1.0463	90:1: 1995:
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a) 318	.1580		.960	. 35.88 	1.35 1.35 1.35 1.35 1.35 1.35 1.35 1.35	.59734	E CP	.1580						.6047	.9530	.0050
NT VARIABLE	.1120	. 1947	.9210	0987 0770 1685 2518	-, 4637 -, 3752 -, 4181 -, 4113	MACH #	IT VARIABL	.1120	980	3283	1700 1700 1815	. 1837		.1376	.9210	0681
DEPENDENT	.0700	.1651	.8730	1162 11374 11374 11393 11304 11304	7.5032 4.5319 4.5025 4.3457	901 m	DEPINOSHI	.0700			. 2331 2375 2087	. 1425		. 0922	.8790	0822 :032
	.0463	.2239	.8210	+ 1556 - 1333 - 0513 - 057+	1477 .1076 .3618	= -7.		.0+60			.3226 .3387 .3096	1395		. 1402	.8210	- 1019
البة دي م	.0830	3222	37763	**************************************	- 687 1080 1080 1080 1080 1080 1080	BETA (13	ម្ជ	. 3233	. 0828 0841	. 3517 - 4835	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	.3638		.2003	.7790	0551 .
TR FUSELAGE		in m j	.7230		0903 0338 0087	ŭ	R FUSELAGE	.0383	E684.		.7003			.4350	.7290	3986
1.09B11EP	BBBB.	1.0:1:	. 5520	Mt (00) 1 1 - 10 200	075; 0558 0588	D	1 : 0F31 TE	0000.	1.0274					1.0274	.6523	- 1150. - 5200:
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JATE 10 FI	FEB 76		TABULATED	TED PRESSURE	SURE CATA	A - 0A148	B C AMES	11-073-1	•					PAGE	699
				AMES		-073(0A14B)	-140A/B/C/R	ORB	FUSELAGE			(XE8945	3 463		
PHA (3)	. 	-018	BETA (1)	n	-7.901							\			
SECTION	(1) OPBITER	TER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
71.8	.6520	.7290	0677.	.8210	0678.	.9210	. 9600	ე666 .	1.0180	1.0460					
70.000 90.000 105.000	210+	1615 1054	0322 . 0256 . 0779	.1397 .1909 .3478	0127 0416 1104	0237 0831 1247	1962 1573 2027								
20.020	2029	0905	K 1	1164.	2051	1574	1798	2572 2672							
2000 - 1200 1000 -	- 107a	6808		.131		- 1439	7096 1794								
600.00		1.014	1 (1)	8661.	9	•									
للا ، تاباط	<i>3</i>	9:10	BETA (2)	-3	.862	MACH #	.59704	ø	# 59	595.39	<u> </u>	- 2386.0	TASA I	. .	. 8459
SECTION (C 1109BITER	TER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	SLE CP								
r a	. 0000	. 0360	. 0230	. O46G	. מקני	. 1120	.1580	. 1660	.1770	. 2040	93.0	.3019	.3780	0784.	5740
ян: . аза	1.0538	5339	. : 2:+	. 0253	0255			0696		0581	0437	3237	7600°	.0371	.0467
בים ינים			. 1562	.0539	0354	0782		0761		0759			ļ •		
40.000 55.000			3109	. 1012	.0161	0239		0723 - 0336		0825	0427	. 0280	.0189	. 0277	. 0571
70,000			4103	. 27.2. 4.0.2.	1 305	.0773		0430			1923			3246	
90,900 123,010		.5679	.3930	. 2390 . 2510	.1515	. 1745		7040		2239	2171	1138	0504	1092	
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557,030 551,030								•	.0397	1.25.1	3009	1582	0830	0557	
មន្ត ពួក							6000	.4392							
90000	1.0539	.4510	.2317	. 1612	.1125	. 1663		.3296	•	1.4537	2676	1438	0698	0489	
e,	. 5520	. 7290	3277.	0:28.	.6790	.9210	.9500	. 9990	1.0180	1.0460					
C)	.0299	2023	ម្ចា				.0767		.3976	. 1097					
۲,	. 3195		77.				6210.		3047	0468					
<u>~</u> (40.0	2053 					1227								
1111	:	•	. C. 58	2535	996! -	1773	2237								
	1.1457	05¥a	.1531					3439 2670							
(20)	0593	7610.		. 298 6 . 2219	2503	1759	2023								
		ı	,				; } }								

57.0 . 2469 5790. 9 844.1 1844.1 1970 9340-.0252 00111 - . D.J.+5 -.0334 : ::: ::: .D. t. 378 -.0523 -.0621 2356.3 -.0015 33:08 400. -.1533 -.1359 -.1487 -.2323 -.2585 -.368+ -.2573 -.0547 .2510 - C447 -.2732 -. 7581 .8342 -1.2226 ##E# !!-1.0465 595.39 AMES 11-073:04148) -1404/8/0/8 089 FUSELAGE 1.0193 .:770 -.0557 3943 1.0180 0886 · .:650 -.0645 -.0632 -.072 -.0909 -.1087 -.1233 .3296 .4066 0665. 1.844.1 1.8700.1 .375. C .9503 .1583 . 0742 . 0:47 +.1531 -.1956 5698 7.2593 7.2486 7.2298 7.2598 .59704 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .9210 -.1560 .1120 -.0718 -.0356 -.0556 -.0556 -.0569 -.0659 - 0475 -.1136 -.1780 . 1547 .1795 .9210 ZACT. -.0187 5703 9.90 -.0826 -.1051 -.1246 -.1823 -.2682 . 1229 -.3371 -.3082 -.2649 -.1223 1089 .8790 <u>.</u> .82:3 .2855 .0+60 .0352 .0503 .0503 .1181 .1179 .1342 .1342 . 1912 .:685 .8210 .0674 .3535 .3525 .3946 ល ŕì 7793 1839 . 0233 - CC+05-- CC+07-- 11176 - 0361 .2572 .733 BETA BETA BOMINED FORESTEE 304_3009 F311FF0:1 7890 0800. .3291 .5359 53:4 -.0057 -.233; -.1548 1447 . 7230 ក្ ក្ .0383 -.0-16 τ. :::Θ - . 7.65 - . . 689 .5520 5030 1.0400 1.0356 1.0356 1.9719 1.0718 .6520 -11077 'n CATE 10 FEB A_F4 (3) SECT101 P41 165.000 180.000 SECTIO:

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W/LE

15		4.8459		5740	.0423	.0676								4.8469		.5740	. 0295	. 0535	
PAGE				.4970	00+0.	.0166	0415	0456	5440.	0543				•		.4970	.0261	0027	0524 0437 0412
	3453	PAV.		.3780	.0065	.000	0705		0665	0713				D RN/L		.3780	0046	0309	0805 0642 0550
	(XE8846)	- 2386.0		.3010	1,227	0283	1395 1506 2461	1419	1431	i 398				• 2386.0		.30:0	0250	0701	1482 1477 2399
		٩		.2510	0516	-,0799	2559	3266	2660	2631				۵		83.0	0611	1274	2742 2995 3625
		595.39		.2040	0679	1133	2543 3619	5253	-1.2027	-1.4297	1.0460	. 1136		595.39		.2040	0848	1532	2967 4178 5133
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11-073-1	ORB B	O		.1660	0724	- 0913 - 0913	- 1568 - 1921 - 1921	.2298	i	.3540	.5390		3673	0		. 1660	0923	- 1271	2184 2516 2407
3 (AMES	-140A/B/C/R	.59704	JLE CP	.1580						.5077	.9600	.0734 .0158 -1820 -2225	3122 2368 2771	.59704	PLE CP	.1580			
1 - JA148		MACH =	IT VARIABLE	.1120		0546	0861 0679 0738	.1050		. 1643	. 9210	0557 0584 1572 2056	- 3448 - 2064 - 3130 - 3130	MACH .	UT VAR! ABLE	.1120	Š		- 1313 - 1313 - 1425 - 0566
SURE DATA	5 11-073(0A14B)	.239 M	DEPENDENT	.0700	0322	0519	0503 0483 0438	. 1173.		.1199	.8730	0799 1103 1726 2395	-,4449 -,4126 -,3758	. 288	DEPENDENT	.0700	0607	0915	1329 1317 0986
TED PRESSURE	AMES	<i>3</i>		.0460	. 0289	.0210	. 0297 . 0297	6641.		.1695	.8210	1150 0933 0293 0299	. 2764 . 2764 . 2739	œ #		.3460	•		0801 0301 0792
TABULATED		BETA (4)	1GE	. 0230	.1123	1544	. 1640	. 2232		.2473	0677.	0479	0308 0308 1534 1634 1713	BETA (5)	AGE	. 0230	1160.	0093	. 0675 . 0675 . 1042
			OPBITER FUSELAGE	.0080	5145		. 2513			.4128	.7293	0059		.035 8	ER FUSELAGE	.0390	M. 34.		. 0623
3 76		= 4.030	1109011	. 0000	1.0515					1.0515	. 6520	.0263 .0301 2713 1883	0978 0442 0464	÷	1.1CPB17ER	. 8536	1866.		
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	PH1 . C00	20.000 40.000	90.000 90.000 90.000	1000 1000 1000 1000	:51.200 :62.200 :65.200	169 600 174, 000 180, 000	XVLB	941 200 707.00 907.00 907.00	110.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000	ALFESS (3)	SECTION (X/EB	7	1000 con	52.000 17.000 90.000 180.000

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į	1 XE 007 0 7		.3780	0836	0995	1198				I RN/L		.3780	.0339	.0817	0499 081:	-,169⊊	1460
•	2		.3010	1585	1680	1836				- 2387.1		.3010	.0008	.0713	-, 1216	2539	2184
			.2510	3112	2867	2993				۵.		.2510	0192	. 0295	1581 1923 3586	-,5644	3799
	ıl.		.2040	5808	-1.1974	-1.4226	1.0460	. 0024		۴.93		.2040	0230	0002	0759 1527 2665	4122 6656	1644.1-
i i	7 03EL		.1770	0z <i>d</i> z -	2878		1.0180	.4131 .2496		* 594		.1770				9330	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
000	9 5		. 1660	.0935	.2792	.2570	.9990			o		. 1660	0265	1080	. 0420 . 0322 . 0993	.4185	.3924
	1000	BLE CP	.1580			.4468	.9600	.0697 .0097 1900 2452	3701 3428 3438 2966	.59670	LE CP	.1580					F. 5.77
		NT VARIABLE	.1120	.0260		.1214	.9210	0682 0637 1733 2481	4285 3756 4316	масн .	I VARIABLE	.1120	# :: :	. 0931 5831	1541	.0957	
ANFC 11-072(04110)	8.288	DEPENDENT	.0700	.0003		.0741	.8790	0823 1140 2029 2844	-,5486 -,5735 -,5305 -,4182	.892 M	DEPENDEN	.0700	.0452	1557	. 1160	.0769	
AME	5) = 5		.0460	. 0802		.1181	.8210	1102 0920 0741 0750	0703 .0929 .267 6 .2678	r		.0460	.1075	1.55 1.58 1.58	.3359 .30% .2053	. 0354	
	BETA (5		.0230	.1372		.2025	0677.	0545 0342 1858 1235	0204 .0536 .1769 .0852	BETA (1)	IGE	.0230	.3349	3,442.	27.55 3.45 3.466	. 134B	
	4.035 B	FUSE	.0080			北京.	.7290	0053 1977	1169 0403 0280		110RBITER FUSELAGE	. 0080	5446.		.6356		
	u		.0000			.9981	.6520	. 0158 . 6779 - 2754 - 1692	1102 0705 0749 0366	= 7.996	1) ORBITE	.0030	.9319				
	ALPHA (3)	· SECTION (X/FB	PH1 143.000 150.000 151.000	000 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	180.000	X/LB	PHI .000 .001 .001 .001 .001 .001 .001		ALPHA (4)	SECTION (X/LB	PHI .990 ≥0.000	40.000 55.000	70,000 90,000 620,000	170.000	16. 1688 165. 060 169. 080 174. 090

DATE 10 FEB	B 76		TABULAT	TABULATED PRESSURE DATA	SURE DATA	A - 0A148	_	AMES 11-073-1						PAGE	703
	•			AMES	S 11-073(0A148)		-140A/B/C/R	YR ORB F	ORB FUSELAGE			(XE8846)	16		
ALPHA (4)	n	7.996 BE	BETA (1)	L- =	. 892										
SECTION (1108811	1) ORBITER FUSELAGE	ge ge		DEPENDENT	NT VARIABLE	RE CP								
X/LB	. 0000	. 0080	.0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	.3780	.4970	.5740
9H1 180.000	9919	.2736	.0743	.0506	.0047	.0642		. 1644	,	-1.7861	3187	1836	- 1176	1041	
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PH1 .030 70.000 90.000	.0863 .1036 3235	.0498	.0003 .0238 .0638 .0043	0445 0445 .1424 .1982 .3629	0468 0718 0028 0313	0441 0082 0064 0822	.0842 .0135 0837 1562	7220	.4384	.1209					
11.00 12.00 12.00 12.00 12.00 12.00 13.00 10.00	3440 1581 1587 1101	1862 0591 0347	. 1529 . 1291 . 1457 . 1215	.5218 .3001 0929	2501 2601 2904 0767	1832 1750 1512	1816 2307 1956 2927	. 2828							
ALPHA (4)	9.6	8.007 BE	BETA (2)		.rS1 M	MACH ==	.59670	ø	# 594	594.93	•	2387.1	I RN/L	•	4.8410
SECTION	t 110RBITER	ER FUSELAGE	GE		DEPENDENT	NT VARTABLE	BLE CP								
8.7X	0000.	.0080	.0230	.0460	.0700	.1120	1580	.1660	.1770	.2040	.2510	.3010	.3780	.¥970	.5740
FH1 . 300	1.0229	.6773	2646	1393	.0720	i c		0100		0111	0029	1610.	.0497	.0873	.1051
+0.000			4279	2209 2209 2209	1292	.0712 .0712		.0148		0113	.0107	.0525	.0757	. 0859	.1380
95.000 70.000 90.000 120.000		.5133	. 3821 . 3821 . 2983	. 2351 . 2093 . 1630	.1408 .1287 .0786	. 10879 . 10879 . 1087		0329 0360 0364			2338 3596	1256 1494 3592	0823 0991 2249	0761 0883 2285	
140.000 150.000			. 1830	.1019	.0432	1101.		.3809	1100.	689. 689.	4779	2036	1151	1072	
162.000 155.000							i	.3870		-1.4011	3360	1795	1860	0845	
174,320 160,630	1.0229	. 2966	.1088	.0718	.0342	.0957	.5431	.2676	•	-1.6100	2872	1556	0759	0682	
X/CE	.6520	.7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PP-1 .600 40.330	. 10956 470 : .	. 0625	.0059	0602	0428	0394	.0863		.3170	.1190					

(XE88+6)

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

-3.861 A_PHA (4) = 8.007 BETA (2) =

PEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

					£.8		.5740	1083		. 1336													
							0.4970	0560		.0735	0905	1411	069⁴	י פונה מ	?	0573							
					I RN/L		.3780	.0586		. USB4			0853	0725		0621							
					± 2387.1		.3010	2420.		.0267	1514		- 169t	151.		1417							
					۵.		.2510	.0013		0503	2541	3630	4086	3046		2773							
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J666 .		3312			σ		. 1660	0024	0085	0835	1007	0227	.3000		.3473	.3114	0666				7277 -	2678	
.9600	1108 1727 2229	2055	2086	2621	.59670	BLE CP	.1580								2002		.9600	0.00	0362	1436 1944			6534 8241
.9210	0580 1205 1704	2151	1817	1562	MACH =	NT VARIABLE	.1120		.0082	.0061	.0116 .0059	/690.	. 0889			.1066	.9210	-, 034B	0257	1063 1783	2155	2643	7.041R
.8790	0553 0981 1797	2838	2582	2+cn	₩ 971.	DEPENDENT	.0700	.0732	. 0666	.0751	.0533	, n. n.	. 0264			1 7 70 .	.8790			1831		3232	
.8210	.0762 .1214 .2367	1754	.1276	.2602			.0460	. 1493	1531	1531	.1157	, da	. 0949			.0897	.8210	0554	0+18	89.0	.0843	.0858	3 F
.7790	1219 0470 0102		4771.	.1355	BETA (3	AGE	. 0230	.2700	3+3+ 3-3-	.3275	7887. 2709	0122.	. 1629			. 1201	3677.	.0115	.0259	0639	.0183	. 0958	. : 385
.7290	2786	1049	+500	.0033	012 BI	ER FUSELAGE	.0080	.6849			. 3635					.2751	.7290	.0518	6	7.301g		3790	0190
.6550	3580 2756	2523	+.1096	0902	ta 00	1109BITEP	. 0000	1.0308								1.0308	.6520	6860.	. 1050	2730		1742	0845
X/;B	79.570 70.570 70.570 105.699	135,000	150,000	180.00	A DEED (C.)	SECTION (X/LB	E C		50.00 50.00 50.00		140.00	153.030 151.930	165.000	174.000 174.000	180.000	K71.83		111		10	120.033	rer rer rer

PAGE	,					RN/L .		.4970	.0931	. 0527	1991	0927	060B	0589		0700								
	(XE8845)							.3780	.0513	. 0201	1984	1153	0697	0687		0732								
	CXE					= 2387.1		.3010	.0205	0264	1976	1788	1571	1460		1533								
						۵.		.2510	0039	0818	1000	2867	3510	2867		2916								
	tui.			1.0460		594.93		.2040	0184	0463	2116 - 2508	3489	5728	-1.3042		-1.5296	1.0460		1229	ee 10 .				
- -	FUSELAGE			1.0180		56		.1770						2017 2017			1.0180		.4306	18/4				
- 0A148 (AMES 11-073-1	C/R ORB			.9990		ø		.1660	0104	0300	1515	1742	.2007		. 2972	. 2922	.9990				2600	2830		
B CAMES	-140A/B/C/R		IBLE CP	.9600	2474	.59670	BLE CP	.1580							5454.	!	.9600		.0848	- 1777	2710	2954 1	2731	2786
	11-073(0A148)		DEPENDENT VARIABLE	.9210	2402	MACH	NT VARIABLE	.1120		0045	0837	0603	.0468			. ዐՅድ	.9210		0395	1.1584	2712	3335	3198 3198	3407
BULATED PRESSURE DATA	5 11-073	.176	DEPENDE	.8790	1418	٠ گئن	DEPENDENT	.0700	.0503	.0383	0189	0428	0007			. 0258	.8790		0434	1776	3556	4265	4056	2702
TED PRES	AMES	3) =		.8210	.4035	<i>5</i>		.0460	1413	. 0979	.0165 .0165	.0331	.0605			.0738	.8210		0658	0459	0297	.0394	3903	.2513
TABULA		BETA (3	AGE	.7790	.1350	BETA (4)	AGE	.0230	.2578	7.7.	0261. 1619	1581.	. 1263			. 1261	.7790		.0111 2057	1842	0+23	0105	.1277	1351
		8.012 B	ER FUSEL	. 7290	.0132	8.012 BR	110RBITER FUSELAGE	.0580	.6690			.2005				. 2529	.7290		.0507	3295		1232	3154	3018
3 76		# 8.	1.1088171	.6520	0701	# 8.C	1) ORBITE	. 0030	1.0144							1.0144	.6520		. 0924 . 0981	3975		1531		- 0735
DATE 10 FEB		ALPHA (4)	SECTION (1) ORBITER FUSELAGE	X/LB	PHI 165.000 180.000	ALPHA (4)	SECTION (X/LB	DES.	1000 1000 1000 1000 1000 1000 1000 100	70,000	90.000 120.000	150.039	162.030 165.030	174.000	160.000	X/LB	Іна	90	000	Ċί.	0.00.03	100 100 100 100 100 100 100 100 100 100	00000000000000000000000000000000000000

.0981

4.8410

9		.8410		.5740	. 0953	4.8363		.5740	.1638
7 10 10				0764.	. 0791 . 0146 . 0974 . 0629 0737 1023	•		0.4970	.1447 .1728 0927 1394
	346)	RNAL		.3780	.0391 1430 0672 0672 0974 0974	RN/L		.3780	1518 1518 - 1532 - 1533 - 1533
	(XE8846)	e 2387.		.3010		2386.8		.3010	. 1381 - 1161 - 1679
		۵.		.2510	0128 1617 3065 3328 2943 3257	• a		.2510	.0991 .0991 1785 4358
		4.93		.2040	0301 0736 1627 4002 5110 5110 5110 13040 1.0460 1.0460	.28		.2040	.0430 .0570 .0853 0310 1696
•	FUSELAGE	# 594		.1770	3417 3327 1.0180 .4366 .5578	* 595		0771.	
,)	ORE	o		. 1660		o		. 1660	.0467 .0708 .1177 .0689 .0410
	-140A/B/C/R	.59670	BLE CP	. 1580	. 3877 . 9600 . 0167 . 1870 . 2303 . 2303 . 3342 . 336 . 3306	. 59692	ABLE CP	. 1580	
•		MACH .	NT VARIABLE	.1120		MACH	VAR	.1120	. 0961 . 1879 . 1795 . 1539 . 1222
	AMES 11-073(0A148)	8.293 M	DEPENDENT	.0700	0039 0040 1255 1255 1144 1259 0079 0083 0083 0083 0083 0083 0083 0083 0083 0083 0083 0083 0083 0083 1305	.852 MA	DEPENDENT	.070	.1505 .1720 .2669 .2882 .2113 .971
	AME			.0460				.0460	.3748 .3748 .3908 .3806 .5855
		BETA (5)	AGE	.0230	. 1810 . 1840 . 0313 . 0406 . 0313 . 0401 . 0409 . 0409	BETA (1.)	SE	.0230	.3711 .4530 .5940 .5781 .4835 .4041
		e 600.	ER FUSELAGE	.0080	.628 .925 .925 .138 .158 .753 .753 .753 .753 .753	38 68	R FUSELAGE	. 0080	.5570
) :		œ •	1109811ER	. 0000	.9576 .9576 .6520 .6520 .7358 .7491	5	1) ORB I TER	.0000	9196
		ALPHA (4)	SECTION (X/L3		ALFFIA (5)	SECTION C	X/LB	P.1.1

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AMES
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TABULATED PRESSURE DATA
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(XE8846) AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE ဌ DEPENDENT VARIABLE -7.952 BETA SECTION (1) ORBITER FUSELAGE 11.987

.5740 .4970 -.1640 N N .3780 -.2047 -.1596 -. 1251 2386.8 .3010 -.2378 -.2867 -.1868 -.6213 .8510 -.4059 -.3238 .2040 -.4837 -1.5718 -1.9689 1.0460 .1324 595.28 .0539 .1770 .4635 1.0180 . 1660 .3714 H0+0 .1122 .9990 -.3127 Ø .1580 -.1885 -.2506 -.2049 . 1964. .9600 .1079 .0429 .0770 -.1410 . 59692 DEPENDENT VARIABLE CP .1120 -.0115 .0253 -.0021 -.0703 .0128 .9210 -.1965 -.001E -3.842 MACH .0700 -.2515 -.3015 -.3348 -.0519 -.0031 -.0340 -.0037 -.0258 -.0880 .8790 -.0660 -.0847 .0460 -.0024 .0212 .1858 .1900 .3684 . 5213 . 1669 -. 6885 .8210 -. 0284 -.0513 BETA (2) . 0230 5740. . 1043 - 0938 - 0447 - 0633 -. 5246 -. 0377 -. 0365 -. 0428 .7793 9440.-C 110991TER FUSELAGE .0080 .1213 -.313**2** -.255.-.1039 .7290 -.1185 -.2326 - . 1 ርଥି 12.008 .0000 .1519 .1939 -.4753 7.2075 7.1995 7.1872 .9156 .6520 -.4719 ALPHA CBI PH1 550.000 181.000 185.000 185.000 185.000 185.000 185.000 185.000 185.000

-2152 西二 -.1303 -.1561 -.3733 .4970 .1575 .1490 -. 1635 -.1287 .3780 .1086 -.1398 -.1621 -.1950 -.4774 .3010 .0769 3460 -. 2354 -.2385 -.2634 -.4222 .2510 .0546 .0504 -.5349 .0543 .0543 .0450 -.0954 -.1483 -.2390 -.3709 .2040 .1770 -. 0442 -. 0913 .0655 .0757 .0899 .020 -0283 .0477 .1660 .1580 .1120 .1053 .1542 .0873 .0745 .0551 .0283 .1770 .1841 .2308 .1870 .1150 -0162 .3700 -.0512 0460 . 25984 . 32989 . 32989 . 2133 . 1649 . 0559 -.0110 . 2230 .0090 .8147 י בההי .9-89 SECTION Socionis de la company de la c ញ ូវ

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

PAGE

(XE8846)

ALPHA (5)		2.008 BE	BETA	H L	-3.842										
- NOT1035	SECTION / LIOPHITER FUSELAGE	FR FUSEL	AGE		DEPENDER	DEPENDENT VARIABLE	3LE CP								
א/רם	. 2000	.080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3790	0.4970	.5740
PHI : 90: 000	9488	.1117	+1.01.4	0157	0486	. 0290		. 2053	•	-1.8679	2933	-, 1526	0844	0875	
e¬,×	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
1 35000 1 35000 1	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	.1268 3555 2521	.0738 .1020 1699 0856	0016 .0207 .0442 .1028	0016 0330 0710 0953	0066 .0161 0549 1112	.1118 .0516 1008 1564	727	.3373	.1342					
) 00000	3330 1495 1157	0598 1085 0358	.0609 .0653 .0440 .0425	.1519 .1271 .2149 .3770	2867 2771 2008 0388	2228 2109 1884 1473	2087 2474 2104 2533	2731							
ALPHA (5)	1 :2.0	38 910	BETA (3)		.174 MA	MACH #	. 59692	ø	* 595	595.28	•	- 2385.8	RN/L	•	4.8353
SECTION (1 1 1 OPBITER	ER FUSELAGE	4GE		DEPENDEN	DEPENDENT VARIABLE	ILE CP								
X/LB	. 0000	.0090	.0230	.0460	.0700	.1120	.1580	.1660	0771.	.20%.	.2510	.3010	.3780	0.4970	.5740
1H4 000:	.958	8216	4160	.2626	1783			.0685		.0582	.0633	. 0865	.1183	. 1639	. 1782
1000 1000 1000 1000 1000 1000 1000 100			. 4254	27.77. 20.00.		0980		0413		0171	0138	.0420	. 0869	.1282	. 1994
25.000 79.000 25.000 126.030		.2755	1000 1000 1000 1000 1000 1000 1000 100	. 1001. 2011. 2718 0180	.0168 .0319 0463		•	-, 1043 -, 1148 -, 0431		- 3003 - 3003 - 193	2865 2991 4027	2010 2158 3953	1637 1648 2543	1568 1565 2384	
000 000 000 000 000 000 000 000 000 00			. 0469	. 0050	0530	. 0295		.2715		7964 7964	1624	1889	1060	1137	
1887.000 1887.000 1887.000							į	. 2985	1613 1613	-1.4579	3153	1594	0841	076 ²	
180.030	.9584	.1395	3400.	0125	0338	.0455	* n n +	.2507	ı	-1.7195	2889	1367	0716	0729	
87/X	.6520	.7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.3460					
. 000 . 000 40. 000	.1735 .1959	.1354	.0759	0120	.0030	0051	.1117		.4589	.1375					

;	80/							4.8363	Š	1791.	.1711							
	7							•	669	14741.	. 0802	1934	1409	070	900	0/90		
	į	(XEBB46)						.8 RN/L	.3780	1095	. 027E	1915		0727	- COO			
		3X)						= 2386.	.3010	<i>CST0</i> .	0282	2301	1650	1480	-, 1579			
								۵	.2510	.0499	1048	3248 3248 4002	3892	2985	2978			
	یإ	.		1 0460	•		;	595.28	.2040	. 0482 5870	0874	2702	6094	-1.4148	-1.7884	1.0460	. 1359	
3-1)	B FUSE! AGE			1,0180				ří •	1770				2332		•	1.0180	.2962	
AMES 11-073-	B/C/R ORB			<u> </u>		3365		9	. 1660	. 0572	0361	1754 1759 1138	. 1699	.2495	.23"4	.9490		3760 2853
04148 C AM	1+0A/B/C/R		VARIABLE CP	ന	1385 1882 2401		60800	BIF CP							.4137	.9600	.1096 .0415 1695 2112	
DATA - OA	-073(0A148)			•	1115		MACH	VAR	•	.0661	- 1119	0686 0686 0151	.0067		.0375	.9210	0104 0122 1639 2223	
PRESSURE D.	AMES 11-0.	174	DEPENDENT	. 8790	1403 1997 2770	3264 3397 3083 1626	4.245	Z	.0700	. 1575 . 1256	. 0381	0598 0598 0923	0710		40.5	.8790	0061 0536 1975 2836	
TABULATED PRI	¥	3) =		.8210	0215 .0148 .0640	. 1438 . 2999 . 4826			. 0460	.2331			0189		0182	.8210	0052 .0146 0342 0978	3621
TABU		BETA (FUSELAGE	0677.	2070 1116 0180	. 0310 . 0310 . 0963 . 1335 . 1335	BETA (L	AGE	.0230	.3962 .3634	1847	.0643	.0157		7600.	38:7.	.0653 .0854 2334 1573	. 11797 0550 1179
		12.016		. 7290	4037	1235	.917	'ER FUSEL	. 0080	.8013		* * * * * * • • • • • • • • • • • • • • • • • • •			2080	. 7290		1757
FE9 76		5) = 15	(1) ORBITER	.6520	5273	2273 1603 1029		1 1 ORBITER	. 0303	1243					m (peca.	1631 1659 16593 17878	. 8311
DATE IC F		ALPHA (B	SECTION	X/LB	E 2 8 8 2 5	126.033 135.030 153.030 165.030 190.960	ALPHA (5)	SECTION (×/18	20.000 20.000 20.000	55.000 70.000	120.083 140.093	200-291 200-291 200-291	1000 1000 1000 1000 1000 1000 1000 100		ı Ç	8855895 8855895	

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FUSELAGE
ORB
-140A/B/C/R
MES 11-073(0A148)

4.245

BETA (4) =

ALFH4 (5) = 11.917

						Ö	ı	ស	N												
				4.8363		5740		.1532	. 1393												
				•		.4970		.1402	4440.	2268	1651	0837		10 /3	1403						
				RX/L		.3780		.0986	0347	2105 -	•			- 29an -	1289 -						
				2386.8		.3010		.0565	1138 -	2490				- 1001	- 1900 -						
				•		.2510		.0430	2161 -	3400	3281 3820		000	. 5005.	3352 -						
		1.0460		595.28		.2040		.0297			5352 5128		7567		1.7730	1.0460	.1334	÷900·			
		1.0180		595		.1770							-, 3809	•	•	1.0180	.4588	.2766			
		3886.		0		. 1660		.0461	1199	- 2288	1938	.0615		. 1865	.1453	.9990			3639 2952		
1	BLE CP	.9600	2651	59635	BLE CP	.1580								,	. 5455	.9600	1011.	. 0290 1883 2225 3013	3680	3452	3136
	DEPENDENT VARIABLE CP	.9210	3409	MACH *	DEPENDENT VARIABLE	.1120		0257	0711	1351	0535	+++0			0043	.9210	0143		4279		- 455
	T L L	.8790	2752	8.309 M	DEPENDE	.0700		.1363	0195	- 1670	1464	1104			0931	.8790	8600			0.35 2.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3	
		.8210	. 3999	5) * 8		.0460		.1706	. 0993	- 1069	0962	0652			0418	.8210		1506 1773 1633	.0254	3329	. 1843
L C	d Se	.7790	.1057	BETA (5	AGE	. 0230		.3543	. 1654	0.00±0	0178	0367			0253	.7790		2874 2315 1856	1403	10.40. 10.40.	.0213
בים ביוכבי	ויי רטטנר	. 7290	0281	11.90¥ B	ER FUSEL	. 0080		. 7551		0672					8410.	.7290	. 1246	4354 3436	2459	0763	1314
TOW CITE STIESON CONTRACTOR	5	.6520	0990	Ħ	1.10RB1T	. 0000		.8923							.8823	.6520	. 1558	5075 3969	2353	- 1146	967:
NOT TO:		X/LB	PH1 165.000 193.000	ALPHA 1 51	SECTION (1) ORBITER FUSELAGE	#/\z	PH.	000. 20.000	+0.000 55.000	73.000 90.000	180.000	150.001 151.000	162,000 165,000	159,000 174,000	180.339	/LB	000: CH	00001	120,000) () () () (20

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-07310A1481 -140A/B/C/R ORB FUSELAGE

(CS AUG 75)

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	000	2.9180		.5740	. 0574	0607							
		•		0.4970	- 6690.	.09.	. 0222 . 0152 . 0193	. 0590	. 5813	0968			
: DATA	SPOBRK L-ELVN MACH	RN/L		.3780	- 0380 -	0911	0533 0917 1224 -	- 1041 -	1 3 ME 1 .	1212 -			
PARAMETRIC	-10.000 16.300 4.000	438.06		.3010	- , #550 -	- 1841 -	0955 - 1733 -	1651 -	1599 -	-,1384 -			
Q.	RUJJER = BDFLAP = R-ELVN =	•		.2510	0019	1725	1874 1657 1024	2881	2450	2800			
	5 8 4 2 9 4	600.40		.2040	0274	1789	. 1409 . 1876 . 1541	.1173	1423	2445	1.0460	. 1975	
		• 600		.1770				ţ	6208.		1.0180	. 1963	
		o		.1660	0547	0960	. 1209 . 2299 . 2946 . 5676	1.0044	1.0654	1.0029	9330		1.1.78
		1.3993	RE CP	.1580						1.1001	.9603	2558 2690 0352 0216	0272 .0559 .:078 2342
	868 848	MACH .	DEPENDENT VARIABLE	.1120	į	0483 0483	. 1082 . 2221 . 2672 . 4698	.5575		.5591	.9210	2071 1406 .0402 .0529	0510 .0733 .1949 .3633
	76.6800 IN. .0000 IN. J.0000 IN.	3.852 M	DEPENDEN	.0700	9210.	80.00.	. 3150 . 3150 . 3400 . 4496	₽ 58₽.		0774.	.8793	1603 1753 .1516 	. 1113 . 1725 . 1725
	1076.6			.0460	. 081.7	1272	9.5. 9.3.4. 9.0.8. 9.0.8. 9.0.8.	.6+39		.6056	.8210	-1030 -1030 -1030 -1051 	. 2854 . 4229 . 4114.
<u> </u>	XMRP YMPP ZMRP	EETA (1)	IGE	. 0230	2082	0 W 1 U	ນ ຄະເ ນ ຄະເ ຜິດເພີ່ ຜິດເພີ່ຍ ຜິດເພື່ອ	ញ់ ញ ប		. 7322	0677.	0378 0751 0433 0541	00 + 00 00 + 0
REFERENCE DATA	50.FT.		R FUSELA	.0090	. 5833		£ 6			1.0299	.7293	0202 .0.81 .550.	6 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
REFER	2690.0000 474.8033 936.0680	±.02	1109911	.000	:.4783				•	1.4790	.6520	5050 5050 5050 5050 5050 5050 5050 505	. 0363 - 0065 - 0158
	SAEF = 3.145.00	ALPHA (1)	SECTION (110ABITER FUSELAGE	x/LB	S:	10.6		888		: () : ()	報告を		

CATE 10 FEB 76

-140A/B/C/R ORB FUSELAGE	1,3993 Q = 600.40 P = 438.06 RN/L = 2.9180	3LE CP	0472. 0794. 3780 .3010 .3010 .3780 .4970 .5740	0503027400380082038404540490 04420472114811341040057307240400 .05200721239416091617 .0121 .2079007023491246051 .46490505179439900456	. 9342	1.0180 1.0460	2541 .1867 .1966 2440 .1185 .0367 0720 .0529 05291924 .1924 .1017 .0313	1.3993 Q = 600.40 P = 438.05 RN/L = 2.9180	E CP	. 1580 . 1660 . 1770 . 2040 . 2510 . 3010 . 3780 . 4970 . 5740	0554052200390080035705040581 049103220322 0395074607080703051907100355 036703652859218113570072	- 1051 - 1061 -
11-073(0A148)	189 MACH	CEPENDENT VARIABL	.0700 .:120	.02160449 .05890445 .05890445 .05890445 .274 .1406 .2374 .1675 .3635 .3973	.4555 .5185 .4555 .5185	•	15652024 16211370 1280078 05900495 02901077 02330220 7261052	275 MACH	DEPENDENT VAPIABL	.0703 .1120	.0221 .00160395 .03200463 .10850068	.1397 .0767 .2698 .2863
AMES	31. = (5	ä	0460	0818 0.08	. 61 ⁴ 6	.8210	1.0818 1.0878 2330 2257 1.1446 39955 4173	3) = 4.2	ä	.0460	6570. 6660. 6681. 7.115.	86787. 6044.
	BETA (2	AGE	. 5230		7497.	0677.	- 0350 - 0551 - 0551 - 1543 - 1563 - 3053 -	9ETA (AGE	.0230	2005. 2005. 2005. 2005. 2005. 2005.	. 5354 7853
	015 8	TP FUSELAGE		.6789		• •	7010 0148 0400. 6180. 9448.	. 023	ER FUSELAGE		. 6538	. 55 7
) -)		L. BBC(1)	.000	6 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 3		1.00.00 0.00.00 0.00.00 0.00.00 0.00.00 0.00.0	₹- d €	(1109BITER	. 0033	1.4656	
	1) WHENY	SECTION	87/x	# ####################################		e de la Karamana de la Karamanana de la Karamana de la Karamana de la Karamana de la Karamana de	86.000 000 000 000 000 000 000 000 000 00	I) THE IV	SECTION	X7LB	ភព ភេទ្ធភព ភព ភេទ្ធភព ភព ភេទ្ធភព ភព ភេទ្ធភព	150.00 150.000

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DATE 10 FEB 76

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ULATED PRESSURE DATA - OATHB (AMES 11-073-1) AMES 11-073(DATHB) -140A/B/C/R ORB FUSELAGE

		0455. 0564.	1179	1047	6763				- 2.9168		04/2. C76+	0220 0228	C4450211	026.0 028 3 0595	ceac	. 2699
		. 3760	1682	1364	1202				3.5		.3780	5700.	6173	- 6456 - 6927 - 1465	1447	-::521
		.3010	1743	1277	1477				• 437.59		.3016	.0165	652E	0701 1522 3154	2471	2184
		.2510	2974	3080	2813				a		.2513	.0133	0496	1575 1446 1132	3386	3063
		.20%0	1959	1608	2564	1.0460	.0732		1.31		.2040	0063	0548	1839 1481 1670	1123	1908
		.1770	5497	. 6666		1.0180	. 1906 . 1187		- 600		.1770				arcr.	.7803
		. 1660	.8499	.9886	1.0153	. 5990	0 94 90	1.24534 5.54534	ø		. 1680	8600	100. 100.	23.00 27.77.2.	7676.	1.0305
	PLE CP	.1580			1.0408	.9500	2554 2349 1026 1003	2945 0955 0623 3271	1.3999	ורב כה	.1580					1.0389
	DEPENDENT VARIABLE	.1120	.4606		.5526	.9210	2016 1398 0194 0510	1912 0543 .0210 .1167	MACH	T VARIABL	.1120	6	00.00. 00.00.	2555 2555 2558 3598	. 3856	
4.275	DEPENDEN	.0700	1714.		.4893	.8790	1563 1612 .0932 .0406	0800 .034u .187a .352	.871 MA	DEPENDENT	000	00 C	15.30		3545	
j H		.0460	.5740		.5152	.8210	0883 0737 0737 	. 3525 . 3525 . 3737 . 4228	n N		0910	165	7 (f) 4 7 (u) 5	7 fr 3 0 0 7 fr 0 4 0 m 0 3 fm	ω ω	
BETA (3)	સુ	.0230	1889.		.7362	.7793	1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	MF 8 M 7 M 7 M M 7 M M 7 M M 7 M 7 M 7 M	TA (1)	ы	. ೧၉೫೦	. 35.25 376.4	1 17 E		.6895	
	R FUSELAGE	.0090			9369	7290	+ + + m	0 0 7 0 0 0 1 0 0 0 0	11 957	P FUSELAGE		.ec33		m m m		
= -4.023	1109BITER	. 0600			. 4665	. 5580	. 0313 . 0177 . 0501 . 0503		() 	i3118-011	() () () ()	3.4856				
ALEHA (1)	SECTION (X/FB	. 586. . 586. . 586.	162,008 165,008 165,008	C) ()	(h)	######################################	- 4 * 2 3 (* 4 3 4 5 1	4 THE . LAST	6	7	() (() (***** ****** *************************		())	

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AMES 11-073(04149) -140A/B/C/R ORB FUSELAGE

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		E S					2.9188		15. E	8	0192						
		Q164.	2936				•		0151	2205	D3+D	4.000 0000 0000 0000 0000 0000 0000 000	1.000	2597	e 150.+		
		.37E0	1645				È		.3780	.0163		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•		.1579		
		.3010	. 1928				+37.59		3010	63:0	- 0360.	325 .235 	- 1343.	- 5553 -	. 1664		
		.2510	.3312 -				•		.2510	.0054	- 96:0:	- 2355. - 2389. - 19:61.	.3+63 -	- राक्स	. 3¥60 -		
		.2040	. 2931 -	. 0463	. 1069		.31 P		. 2040	ທ _{ີ່} ກຸກ ກຸກ	- 0000	070	. 326+ 365	1981.	i i	.0+6.	. 0800 0800
		0771.	•	.0180	. 1537		600		1770	7.	•		• •	. 7236 . 7	•	1 0810.	.2501 .1524
		.1660	.9590	1 0666.	4	. 1001 1001 1001	ø		. 1660	.0025	.0055	. 2008 2008 2009 2009	6163.	€100.	:886:	1 5666.	
	LE CP	. 1580		.9600	- 1974 - 1922 - 0847 - 0795	- 1316 - 0120 - 0510 - 5555.	1.3999	E CP	. 1580	• 1					16291	.9500	19+7
	T VARIABLE	.1120	.3752	.9210	0.000 000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.	- 1092 - 0220 - 132	n	VARIABLE	.1120	0.050	.0358 .0358	1658 1658 16582	. 3623	•	3814	.9210	1431
.871	DEPENDENT	.0700	.3541	.8790	11 00 00 00 00 00 00 00 00 00 00 00 00 0	. 05331 . 0544 . 4092	186 MACH	DEPENDENT	.0700	.0938	4141.	4949. 31.19 31.19	.3390		.3725	.8793	0948 1047
-3.	·	.0450	.5110	.8210		.3332 .3332 .3291		U	.0460	.1659	. 21 17 7974	3731 3731 3731	.5256		.5152	.8210	. 0244 . 0259
[A C 13	Ж	. 0230	.6105	.7790	100 K 00		A (2)	نیا	. 0230	.3334	100 mm	. 633.0 633.0 659+	5.43		.6209	. 7793	- 1620.
II BETA	FUSELAGE	. 0380	4406.	.7290	.0105 .0103 .0163	4 000	32 BET	FUSELAGE	. 0380	7108.		£41.			.8352	.7233	. 0205
011	1)CPBITER	. 0000	558+11	.6520		0163 0292 0279	=03	1109817ER	0000.	1.4850					588m-1	.6520	6600. 6010.
PHA (III)	SECTION (aj K	P41 :00.00:	87/8	5 000000 00 0000 00 0000	10000000 11 20 00 100000 100000 100000	#_Pit . 21 :	0.4011038	BT/X	000				**************************************) ()) ()) ()	an ∃ ¥	690 000 000 000 000 000 000 000 000

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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE ົດ BETA (-.002

437.59 .9990 1.0180 1.0460 600.31 -.2259 O -.2178 -.0708 -.0241 -.3004 .9600 -.1272 -.1013 -.1419 1.3999 DEPENDENT VARIABLE CP -.0520 -.0512 -.1168 -.1454 -.0326 .0540 .1327 .9210 MACH .0243 -.0211 -.1255 .0813 .0813 .1138 .8790 4.251 .8210 .3392 .3520 .4231 BETA (3) .2664 .2941 .2985 .3144 .3264 SECTION (1) ORBITER FUSELAGE .7290 -.0955 -.0412 .0162 1600°. .0237 -.007 .6520 -.0001 .0001 -.0060 -.0105 .0142 לב י ארש"א 70.000 90.000 100.000 170.000 180.000 180.000 180.000 180.00000 180.0000 180.0000

5740 -. 0292 -.0271 -.0466 -.0502 -.0652 -.0247 -.0471 -.0919 -. 0842 .3780 -.1505 .0090 -. 1835 -.0030 -. 1988 .3010 . 0229 -.0157 -.1823 --.2707 -.1828 -.2391 .2510 -.0030 .0022 -.2530 -.2660 -.2634 -.3610 -.3516 -.0153 -.0200 -.0235 .0642 .0753 -.0273 -.0287 .2040 -.2106 .1770 .5346 .6385 -.0183 -.0136 .0008 .0538 .1045 .1572 .3671 .1660 .9473 8234 .1580 DEPENDENT VARIABLE CP 9730 .1120 0198 0224 0430 0684 0684 2194 3063 .0700 .0945 .0709 .1039 .1532 .1595 .1595 3078 3782 .1569 .1539 .1687 .2154 .2298 .2771 .0460 4969 5193 .0230 .4568 .4894 .5250 .5717 .6153 SECTION / 110RBITER FUSELAGE .0080 . 7855 6224 .8529 .0000 1.4705 1.4705 87.X

.1012 .2422 .1617 -.31*77* -.1398 -.1066 -.1433 -.0886 -.0868 -.0976 -.1650 -.0959 -.1009 .0016 -.0581 -.0730 .0018 .0836 ...0342 -.0162 .0834 .0912 .0569 .2946 .2991 .0068 .0217 .0917 .0374 2256 2838 3059 -. 1155 -.0504 .0139

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

U ALLIA	#	007	BETA (3	3) = t	4.251										
SECTION	SECTION (1) ORBITER FUSELAGE	TER FUSEI	LAGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 185.000 180.000	0200	.0171	.3058	.3076	.2443	.0610	3358								
ALPHA (3)	B	3.927 E	BETA (1) = -3	-3.876 M	MACH ==	1.3955	ø	9	600.04	a .	= 440,18	B	•	cucb c
SECTION	(1) OPBITER FUSELAGE	ER FUSEL	AGE.		DEPENDE	DEPENDENT VARIABLE	BLE CP								
67.X	.0000	.0800	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	3780	4970	5740
ä															?
20.000 20.000	1.4681	.9250	.4372	. 2927	.1673	.0748		.0433		.0325	.0374	.0383	. 0520	. 0228	.0156
			.6962 .6904	. 3534 . 4366	3472	.1316		0896		.0202	. 0596	. 0289	.0438	.0133	.0305
רי בי בי בי בי בי		u É	5207.	1944.	3.51	.2272		1939		212.	1333	0457	0417	0865	
1.00.00.00.00.00.00.00.00.00.00.00.00.00		D.	. 6612	.4618 .4699	.3317	. 2996 . 2996		.2677 .5542		.1903	1286	1096	0908	0863	
20.00 C0.00 C0.00			.5703	\$8 \$ \$.	5775.	. 2925		.9376	7052	. 1248	3903	3242	1861	1135	
165,500									75.7	Č	į	į	i		
169.000 174.000							Š	1686		c448	5084	2755	1840	0922	
183, 000	1.4681	.7629	.4827	.4135	. 2543	.2718	once.	.9103		3457	3819	2392	1977	0804	
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
ä															
ສຸດ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື່ອ ເຊື້ອ ເຊື້ອ ເຊື້ອ ເຊື້ອ ເຊື້ອ ເຊື້ອ ເຊື້ອ ເຊື້ອ ເລື້ອ เล เล เล เล เล เล เล เล เล เล เล เล เล	. 03 81	.0468	.0633				1353		.3381	.3155					
77. 303	0500	1+95	1995			- 0753	- 1663		2440	. 1897					
0000 0000 0000	0273	0904	1660 1078	.0524	0621		1386				B,				
100	3334	1031	2076			1500	0	2731							
	06+0	- 000#	2005 2005 FR	2520				. 6431							
165.000	0405 0505	•	. 2384 1859.				- 5055 - 1876 - 1876								
190,000	0340	.0537	. 2244	.2654			3								

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)	
10 FEB 76	

717		2.9202		.5740	. 0244	.0161								2.9202	i	.5740	.0034	
PAGE				.4970	. 0235	.0132	1096 0924 1021	0698	0592	0582			•	•	ļ	.4970	. 0223	1168 0977 0748
	H7)	RN/L		.3780	.0545	.0453	0985 1450 2014	1728	1884	1901				3 RN/L		.3780	.0606	1489 1902 1722
	(XE8847)	m 440.18		.3010	.0550	.0370	1037	2920	2545	2130				## ## 18		.3010	.0418	1576 2262 4215
		۵.		.2510	.0270	. 0697	1778 1868 1936	3961	3609	3936				 С.		.2510	.0237	2189 2382 2708
		800.00 4		.2040	.0343	0147	. 1529 . 1114 . 0817	2066	2420	3836	1.0460	.3098		600.04		.2040	.0284	.0633 .1062 .0322
•	FUSELAGE	. 800		.1770				6	.6915 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.0		1.0180	.3382		# 600		.1770		
11-073-1	OR B	o		.1660	-0+0·	.0756	. 1244 . 2046 . 4781	.8419	.9485	.9379	.9990	85	. 2838	o		. 1660	.0385	.0609 .0656 .1497 .3752
C AMES	-140A/B/C/R	1.3955	ABLE CP	.1580						υ 1 1	.9600	1380 1259 1597 1955	2521 1214 0794 2961	1.3955	R.E. CP	.1580		
- 0A148	-073(0A148) -	MACH =	VARI	.1120	į	. 1092	. 1383 . 1473 . 1515 . 2376	.2734		.2829	.9210	0769 0255 1110 1221	1808 0825 0022	MACH	IT VARIABLE	.1120	7770.	.0739 .0743 .0733
URE DATA	=	191 MA	DEPENDENT	.0700	.1753	. 1678	. 2555 . 2555 . 2399 . 2635	.2520		7575.	.8790	0312 0380 0512 1249	0331 .0329 .0829 .2715	754th M	DEPENDENT	.0700	.1508	1897 18 1614 1982
ED PRESSURE	AMES			.0460	.2629	3041	.3391 .3381 .3560 .4055	.4315		.4185	.8210	.0379 .0405 0317 .0355	.3357 .3357 .3916	نو اا		.0467	8.50 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9	25.25. 25.29. 26.18 36.14. 36.18.
TABULATED		BETA (2)	GE GE	. 0230	.4403	. 4587	.5983 .5918 .6003	.5359		1564.	.7790	.0701 .0772 1969 1162	. 2011 . 2011 . 2087 . 2178 . 2289	BETA (3)	351	. 6230	14362 1454 1000	.5008 .5008 .5008
			R FUSELAGE	.0080	.9213		.7330			.7481	.7293	.0595 1798 1222	0435 .0038	3E 026	P FUSELAGE	.0080	# 	.5922
76		= 3.927	1) ORBITER	.000	1.4740					1.4740	.6520	.0807 .0807 .0853 .0853	0165 0165 0195 0224	₩.	: 109317EP	. 0000	 	
DATE 10 FEB		ALPHA (3)	SECTION (X/LB			ង្គម្ភិទ	95	101.004 108.004 108.004 108.004 108.004		et/x	2003 0003 0003 0003 0003 0003		ALPHA : 31	SECTION (ın ×		20000 20000 20000 30000 30000

718				5740	!									2.9228		5740	.0750	. 0939			
PAGE 7				4970		0697	. 0858							•		. 4970	. 5670.	. 0570.	1089 1335 2820	. 1261	. 0905
	1473			.3780	·	2083 -	1982 -		ı					RAYL		.3780	. 0958	.106₩	.0296 .0832 .3394	- 6515.	- 2202
	(XE8847)			.3010	-,2923	2298	2498		.*	•				440.41		.3010	.0701	.1118	0315 - 0693 - 3161 -	3819 -	3227 -
				.2513	4058	4058	3833							# @		.2510	. 1859		1108 1185	4316	- 3998
	4.4			.2040	1611	2571	3640	1.0460	.3185 .1808					600.24		.2040	9889	0906	. 22042 . 2203 . 1792	. 1062 1126	2855
-1)	FUSEL AGE			.1770	. 5235			1.0180	. 4448. 4049.					2 80(.1770				R778	.7205
AMES 11-073-1	CIR ORB			.1660	.7886	.9006	.9335	.9990		;	3100 3757			ø		. 1660	1000	1710	. 1906 . 1952 . 5126	.8803	.9173
_	-140A/B/C/R		BLE CP	.1580			. 8968	.9600	1369	2247 2247	3380	1758	3531	1.3954	RE CP	. 1580					. 81
TA - 0A148	11-073(04148)		INT VARIABLE	.1120	. 2258		. 2587	.9210	0767	1422 2567	2492	1424	8870.	MACH =	IT VARIABL	.1120	1573	23.77	.2342 .2179 .2241	.2094	
PRESSURE PATA		4,244	DEPENDENT	.0700	.2204		<i>s</i> 772.	.8790	0287	1456 2417	0954	0005	.c.134	-3.871 M	DEPENDENT	.0700	. 2558 2695	.3363	.3426 .3139 .2639	.6111	
	AMES	3) = 4		.00.	÷90+·		+304	.8210	.0345 .0551		.0085	.2119	.2637) = -3.		.0460	.3950	4475	.4489 .4329 .3832	.3308	
TABULATED		BETA (3	AGE	.5230	5064.		.4935	.7790	. 0847 1780.	0310 0945	.1505	. 533. 533. 533. 546.	.2361	BETA (1)	IGE	. 0230	55 50 64 60 64	.7076 .7215	.65908 .6594 .5738	.4559	
		. 930 B	ER FUSELAGE	ממטי			. 7250	. 7290	5150.	1223	0240	.0:87	.0565	7.863 BE	R FUSELAGE	. 0080	1.0392		.8222		
92 e		n,	1:0RB1TER	.0000			1.4616	.6520	.0201 4740.		#100°	C. +1	6.363	= 7.8	110RB17ER	. 0000	1.4376				
DATE 10 FE		ALPHA (3)	SECTION (X/LB	PH: 140.000 150.000 151.000	165.000 169.000	8	x/re	000.04 000.04	90.000 105.000	120.000	150.000	180.003	ALPHA (4)	SECTION (X/LB	PH1 .000 20.000	55.000	90.000 120.000 140.000	150.030	162.000 165.000 169.000 174.000

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TABULATED PRESSURE DATA
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DATE 10 FEB 76
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DATE 10 FEB 76	EB 76		TABULA	TED PRES	SURE DAT	TA - 0A14	ABULATED PRESSURE DATA - DAING (AMES 11-073-1)	11-073-	- -					PAGE
				AME	5.11-073	1(0A14B)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	C/R ORB	FUSELAGE			(XEB	(XE8847)	
ALPHA (4) =		7.863 Bi	BETA (1	(1) = -3	-3.871									
SECT I ON	SECTION (1) ORBITER FUSELAGE	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE CP	WELE CP							
X/LB	.0000	.0080	. 0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970
PH1 190.000	1.4376	.6234	.3656	.3184	. 1847	. 1892		.8671		3800	4179	2699	2124	0700
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460				
, ,														
. 000 . 03 . 030	.1335	.1151	1293	.0956	.0382	0141	0685		4493	.4011				
70.000	1334	2394	2805	2305	1362	1344	1680		. 2033	0000				
90 000 105.000	0978	+161	2364	0319 .0238	1357	1951	2114							
110.00g	1809	1712	.0789	.0680	0505	1970		3166						
1.25.000	0853	0301	.0637	1266	0483	1326	1237							
160.000	0598	0259	.0748 .1320	. 3208	M+40.	.132	2899							

5740

5740 .0812 0.0789 -.1536 -.1679 -.1717 .4970 . 0826 .0663 -.0530 -.0732 -.0459 -.0925 -.1383 -.3291 .3780 .1043 .0386 -. 1843 -.:982 -.2079 440.41 -.0826 -.1250 -.3551 .3010 .0773 -.2897 .1036 -. 學二 -.2⁴89 -.1457 -.1644 -.1830 .2510 .0976 -.4342 -.4311 . 3761 -.3988 .0962 .0813 .0539 .0773 .1479 .1500 .1035 -.4148 -.2822 600.2¥ .1770 .6052 .6630 . 1660 .1153 .1141 .1412 .1268 .1252 .1349 7932 .8826 8826 .1580 1.3954 . 843t DEPENDENT VARIABLE CP .1120 . 1663 . 1798 . 1561 . 1542 . 1363 . 1863 1941 . 1981 MACH .0700 2712 2568 2957 2979 2566 2566 2566 2744 2744 2153 . 1924 . 1854 3782 3783 3362 3785 3785 3410 3316 3280 .0460 3346 .0230 5583 5599 6270 5145 5340 5340 5645 .3767 4281 SECTION (1) CRBITER FUSELAGE .0083 1.0413 **6939**. .0000 91++1 ALTHA C 4 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.0000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.00000 26.0000 26.0000 26.0000 26.0000 26.0000 26.0000 26.0000 26. K/LB

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

BETA (2)

7.99

ALPHA (4)

.1075 -.1442 -.1883 -.2251 3780 -.2128 ₩780° -. 1817 -.2119 440.41 .3010 .0709 -.1347 .0707 -.2732 -.2630 -.3321 -.1838 -.2110 -.2558 .8310 .0734 .0530 -.4335 -.4143 -.4430 .9990 1.0:80 1.0460 -.4045 .2040 .0843 .0685 .0288 .0177 .0017 .0753 .0234 .0920 -.2950 .3978 1.0460 600.24 .1770 5852 .3304 1.0180 .1660 .1090 .0925 .1024 .0565 .0568 .0885 .9990 7388 .8508 8936 .9600 .1580 1.3954 DEPENDENT VARIABLE CP .8025 -.0636 -.0650 -.2458 -.2021 -.2718 .9600 DEPENDENT VARIABLE CP .9210 -.1631 -.2100 -.3015 .1120 1396 1313 0753 0807 0671 1331 .1573 .9210 . 1868 -.0110 .0327 -.1737 -.2070 4.239 MACH -.1513 -.1932 -.2284 -.0841 -.0247 .0339 .2343 .8790 .0700 2643 2318 2405 2087 1712 1549 1556 .0434 .0384 -.1464 -.2151 .1426 196₹ .8790 -.1008 -.0160 .1447 .8210 3988 .0460 3764 3506 3381 2836 2450 2412 2412 2695 .3162 3433 .8210 .1082 .1287 .0980 .0330 BETA (3) -.2685 -.2268 -.0357 .0923 .0919 .0897 .0983 .7790 . 0230 .5483 .5314 .5349 .5012 .4746 .4696 3756 .1356 .1651 .2629 .1494 .0224 3951 .7790 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.2478 -.0430 . 7290 -.0191 .0080 -.0879 01+0 1.0320 . 5820 .7290 -.2394 . 1257 6550 -.1386 -.0676 .0000 1.4316 . 1853 . 1253 . 1853 .6520 1.4316 M.PHA (4) PHI 70.000 90.000 110.000 110.000 1155.000 1555.000 1555.000 1565. .000 40.000 55.000 74.000 120.000 180.000 151.000 165.000 165.000 167.000 40.000 40.000 70.000 105.000 110.000 135.000 X/LB X/LB

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.4970

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.0553 .0741

.0403

-.1953 -.1556 -.1032

-.0583

-.0574

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REPRODUCIBILITY OF THE DRÍGINAL PAGE IS POOR

-.3364

.0770

.0702 .1401 .1560

-.0623 -. 0202

-.0358 -. C294

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						4970	.1493	1441	0964	.1584		,	0726			
47)				i	AN I	.3780	.1436	.1764	.0181		1000		2076 -			
(XE8847)				•	14.04	.3010	.1180	. 1832	0096		. 26.75	_	2927			
						.2510	40 x 1 ·	.1710	0992		- 7554		- 20++			
		-	-	7. COO. 7.4		. 2040	.1667	. 1566 8321.	1288 2278		3276 -		- 4068 - 0460		. 2914 . 2914	
		0181				.1770				į	. 6489.		. 0810.1		. 5585 . 4382	
/C/R ORB		J666		G	•	. 1660	1828	. 07 4%. 57 4%.	. 1898 . 1787 . 4267	.8742		.8422				2719
-140A/B	ABLE CP		3478	1.3955	BLE CP	. 1580						.6707	.9600	200		
510A14B)	DEPENDENT VARIABLE	.9210	0631	MACH	NT VARIABLE	.1120	2470	29.9. 64.5.	. 2353 . 1950 . 1573	.1305		21313	.9210	0750	. 1482 0918 2256 3081	
4.239	DEPEND	.8790	181.	-3.958	DEPENDENT	.0700	.3540	.4238	. 3356 . 2953 . 1785	.1422		.1151	.8790		.1580 2312 2145 2206	1337 1033 6541
3) =		.8210	7162.	;· = =		. 0460	.4859	57.42	1908 1908 1908	.2183		. 2284	.8210		. 1983 2810 0914	.0641 .1369 .2273
BETA (LAGE	.7790	.1075	BETA ()	AGE	.0230	.7161	. 7969 . 7435	.6176 .6176 .7004	.3469		. 2553	.7790		. 2525 3655 3066 2666	0355 0396 1414 0904
7.994	1) ORBITER FUSELAGE	.7290	0137	11.867	1109BITER FUSELAGE	. 0080	1.1489		.769⊬			.481g	.7290	.2335	3355	1951
ŧı	1980(1)	.6520	0371	Ħ	(110991)	. 0000	1.3874					1.3874	.6520	7	. 2236 1827 1549	1890 1609 5937
ALPHA (4)	SECTION	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (X/CB	1000 0000 0000 0000	000.00 100.00 100.00	90,000 177,000 140,000	150,000 151,000	165.000 169.000 169.000	174,000 180,000	X/LB	PH1	00000000000000000000000000000000000000	១៦៦០០០ ១៦១០០០ ១០១០០ ១៣៣៣៣ ៣៣៣៣៣

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3)		2.9245		.5740	-041.							2.02\5		.575	1428	. 1209	
1 2 1				.4970	. 1606	1679 1964 2453	0908	0568	0450			•		.4970	.1472	. 1024	2332 2414 1464
į		RNYL		.3780	.1590		- 1970	1913	2010 -			FRYL		.3780	.1493	.1297	1454 - 1813 - 3805 -
3	(XEBB47)	14.044		.3010	. 1287		3931	3171	2737			440.41		.3010	.1190		- 1214 - 1473 - 3807
		۵.		.2510	.1377	1177 1456 1808	+994	4275	4582			•		% 5 5	1344	. 0643	1506 1908 2399
		600.34		.2040	.1646	. 1596 . 0596 . 0664 . 1632	. 2041	3153	4378	1.0460	3050 3050 3050	600.34		.2040	1547		.0207 .1300 .0386
	ORB FUSELAGE	• 60(.1770				. 6828 6888 6888		1.0180	. 4255 4255 4255	• 600		.1770			
		σ		. 1660	.1896	.1183 .1183 .1153 .4005	.7358	.8077	.8167	0666.	3473	o		. 1660	. 1846	.1393	. 0589 . 0627 . 3605
- 5	-140A/B/C/R	1.3955	are cp	. 1580				7302		.9600	. 0142 . 0060 . 0060 . 2358 . 3146 . 3146 . 2089 . 1649	1.3955	LE CP	. 1580			
•	11-073(0A14B)	MACH .	DEPENDENT VARIABLE	.1120	. 2382	1443 1443 1183 1174	.1278		.1278	.9210	.0791 .1243 .12480 .2806 .3612 .3612 .1608	MACH		.1120	1805	. 1885	.0514 .0514 .0879
	ES 11-073	.176 M	DEPENDE	.0700	3675	3092 3092 9490 1513 1514	. 1221		.1179	.8790	33 60 60 75 75 75 75 75 75 75 75 75 75 75 75 75	.257 M	DEPENDENT	.0700	.3584	.3013 .2136	. 1614 . 1376 . 1081
L	A	•		.0460	4913 4828	. 4033 . 4033 . 3048 . 3048	. 2384		.2372	.8210	. 1936 - 2116 - 21100 - 1100 - 0010 - 0049 - 0741 - 3584	<i>*</i>		.0460	4884 4887	. 2999 9995	. 2015 2015 2015
ABOLATED		BETA (2	AGE	. 0230	.6755 .6845	. 5532 . 5532 . 5205 . +293	. 3264		. 2653	.7790	2386 2529 3948 3021 2022 0183 0183 0297	BETA (3)		. 0230	.6663	. 505 505 505 505	. 4533 . 4299 . 3681
		м	ER FUSELAGE	.0080	1.1523	.6312			.4626	.7290	2001 23577 2384 2384 1237 0867	.869 BE		.0390	1.1399		9684.
2		- 11.87	1) ORBITER	.0000	1.3942		•		1.3942	.6520	. 1723 . 2001 2313 1450 0391 0702 0388	3	1.00RB1TER	. 3000	1.3845		
		ALPHA (5)	SECTION (x/LB	PHI .000 .000	95.000 90.000 90.000	140.939 150.003	168.000 169.000 169.000	180.000	X/LB	000000000000000000000000000000000000000	ALPIN (5)	SECTION (e7/x	PH1 .000 ≓6.030	40.639 55.663	70,007 90,000 120,000

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TABULATED PRESSURE DATA - OAI+8 (AMES 1-073-1)

AMES 11-073(0A148) -140A/B/C'R ORB FUSELAGE

		o Kr							2.9229		5740	.2345	.2533					
		.4970	0633	05+8	0758				•		.4 9 70	.2222	1.22.	1082	4175	3099	1198	
		.3780	- 1756	2008	2098				FBV/L		.3780	.20 9.	.2453		5135	3109	2481	
		.3010	3564	.2830	2941				441.12		.3010	. 1910	.2210		3010	- 4808	4038	
		.2510	- 9694	4493	4335				•		.2510	.2099	.2304		1260	5113	4657	
		.2040	0683	3249	. 4229	1.0460	.4684 .3151				.2040	9342	. 2205		1785	•	3770	
		.1770		. 5583	•	1.0180	.5559		- 600.32		.1770					900	.0453	
		.1660	.6608	.7664	.8254	. 9990	0 2 2 4 4 7	5000 5000 5000 5000 5000 5000 5000 500	o		. 1660	. 2689	.3108	1835	.3000	. 7930		5208.
	65 4	.1580			.6769	.9600	.0087 4 .00732632 2624 3918	- + + 198 2143 - 2156 - 3485	1.3943	LE CP	. 1580							.5854
	T VARIABL	.1120	.1028		.1176	.9210	.0768 .1146 2968 3001	3048 1746 1438 0887	MACH =	T VARIABLE	.1120		3408	. 2363 . 2363	. 0820	.0575		
257	DEPENDENT VARIABLE	.0700	7060.		.1308	.8790	. 1243 . 1132 - 2377 - 3984	1713 1051 0412	.834 HA	DEPENDENT	.00700	.4663	.4632 .5063	.3236	.0837	.0660		
#. #		.0460	. 2298		.2558	.8210	.1919 .2120 2173 1405 0858	1424 .1415 .2824 .3453	n Ki		.0460	. 5958	.6207	5333 54.	. 3729			
(£) ¥1	띯	. 0230	2949		.2617	0677.	.2275 .2544 .3770 .2505 .0583	.0101 0584 0624 0471	BETA (1)	æ	. 0230	. 7983	. 8365 . 8527	. 7565 . 6518	. 5575 . 4076	%. 88,√.		
58 BETA	PUSELAGE	.0080			.4391	.7290	.3370 2246	0965 0412 3549	.839 86	R FUSELAGE	.0080	1.2449			. 7060			
- 11.868	1) ORBITER	0000			1.3845	.6520	.1603 .1711 2180 1162	0746 0426 0386 0590	• 15.8	1) ORBITER	0000.	1.3190						
ALPHA (5)	SECTION (X/LB	PHI 140.000 150.000	162.000 165.000	174.000 180.000	X/L9	000000	110.000 120.000 135.000 150.000 165.000	ALPHA (6)	SECTION (4/LB	PH1 . 060	20.000 40.000	55.000 70.000	90.630 20.630	150.000	152.000 152.000 165.000	169.000 174.000

(XE8847)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

AMES 11-073(0A148) -140A/B/C/R ORB

-3.834

BETA (1)

15.839

ALPHA (6)

5740 5740 2314 2258 0764. -.0708 .4970 -.1954 -.1987 -.3197 .2295 -.1663 -.0654 .2021 .3780 .3780 -. 1955 -.0873 -.1184 -.5251 .2158 .2057 -.1866 -.2421 美1.12 .3010 -.3059 .3010 -.0802 -.0821 -.3356 1914 .1733 -.3377 -.2865 -.4478 .2510 -.4612 .2510 -.1140 -.1409 -.1801 -.4948 .2111 . 1563 -.4521 -.4811 -.4400 .2040 1.0460 . 5225 .2040 . 2241 . 2224 . 1549 . 0494 . 1438 . 1115 . 0302 . 1695 .3496 .4637 1.0460 .3517 .1770 .6551 1.0180 .1770 .5499 .6060 1.0180 . 5032 . . 1660 0666. .7284 . 1660 2612 2612 2612 2089 2099 3195 3195 9880 .7383 6350 .7621 .0796 .0633 -.1717 -.2668 . 1580 -.2817 -.2137 -.3028 -.3546 .9600 = 1.39+3 . 1580 .6452 .9600 .0793 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1546 .2078 -.3815 -.3050 -.2733 -.1834 -.2776 -.0515 .1120 .9210 .1120 .0641 9210 3221 3150 1233 1417 0914 0568 .0665 0695 .1585 . 174 MACH .2419 .2133 -.4425 -.2726 -.1953 -.2011 -.3729 .1681 .0700 .0514 .8790 .0700 .4709 .4889 .3046 .2295 .1843 .6336 **C635** .2445 0596 6790 .2934 .3202 -.4608 -.1938 .0460 . 1425 .0952 .0359 .1+95 .8210 .0460 .6023 .5941 .5625 .4131 .3282 .2735 .718 .1346 1608 .8210 .2421 .**3182** .3326 BETA (2) .0230 .3264 .3525 -.5220 -.3732 .7790 -.1112 -.0370 -.1926 -.2059 . 1554 . 0230 9011 7992 7646 6284 5324 4715 4715 2253 .1612 .7790 .3508 SECTION (1) ORBITER FUSELAGE SECTION (11CRBITER FUSELAGE -.4391 -.3102 -.1979 -.3208 . 0080 5762. .7290 .3201 .080 1.2485 .7290 2884 ¥. = 15.851 .3146 .3146 -.2527 -.2291 -.2811 -.1210 -.0782 . 9099 1.3190 .6520 .0000 .6520 .265**.6** 1.3233 :.3233 ALPHA (6) PH1 190.000 X/LB X/LB X/LB

(XEBB47)

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

AMES 11-07310A1481 -140A/B/C/R ORB FUSELAGE

					0000		(U.	.2258	. 1978								
					•	1		0/54.	.2205	. 1695	2903 2478 2056	1770	0525	0598				
					å	3		.3780	.2165	. 1652	-, 1546 -, 1759 -, 4889	- 1844	1780	2006				
						441.18		.3010	. 1941	.1190	1294 1350 3705	3870	2924	3056				
						# Q.		.2510	.2058	.0663	1455 1760 2296	4938	4605	4523				
		1.0460				.35		.2040	.2341	.0814	. 0.10. 0.00. 0.00. 0.00. 0.00. 0.00.	0520 2829	3526	4577	1.0460	.3681		
		1.0180				= 600.32		.1770					5314		1.0180	. 4929		
		ე666.	, 1	3895		O		. 1660	.2663	.1615	0076 .0299 .0391	.5960	.7039	.757¥	0656.		1	3834
	LE CP	.9600	2739 3154 4236	1.3284 1.2312 1.2629	. 505.	1.3943	LE CP	. 1580						.5892	.9500	.0650	2634 3413 4809	
	T VARIABLE	.9210	4541 3657 4463	2567 1806 2272		MACH =	IT VARTABLE	.1120		.2957	0.000 0.000 0.000 0.000 0.000 0.000	.0525		.0556	.9210	.2014	3739 3753 5278	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
<u>.</u>	DEFENDENT	.8790	4990 3740 4073	1924 1140 2595		283 MA	DEPENDENT	.0700	, 1 623	1005.	. 1998 . 1420 . 106	.0545		.0769	.8790	.2275	4731 3982 5069	(n (r (n) (n (r (r (n) (r (n) (n) (r (r (r (n)) (r (r (r (n)) (r (n)) (r (r (n)) (r (n))
n		.8210	4605 2572 0801	0181 .0057 .2555	.2716	j 11		. 03+0 .	5930		. 3005 . 2005 . 18760 . 18761	.1338		.1618	.8210	. 3354	4315 2631 1753	or in the
BETA (2)	સુ	.7730	5438 3981 2857	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		m	B.A.	.0230	g) • • Œ	1	י אַ		. 1595	3677.	. 5358	- 6000 - 6000 - 6000	# (D (1) # (2) (C) # (2) (C) # (1) (C)
_	R FUSELAGE	.7290	4861	1735	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	38 Et	P. FUSEL	.0083			. 4357			1692	.7233	3095	4540 3532	#
= 15.85	1) ORBI TER	.6520	3464 2120	.150	7.0792 7.0775	ui ui	1:CRBITE	0000.	2012	0				1.3183	.6520	8.60 8.60 8.60 8.60	1.22.1	0 m
ALPHA (61 :	SECTION C	B1/x	P41. 70.000 90.000 05.000	00000 00000 00000 00000	e5.000 e7.000 e7.000	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	C 1011033	e: ,				300	838		с; ж	1	:350 :585	() (1 () () () () () () () () (

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

4.283 BETA (3) = ALPHA (6) = 15.843

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP .8790 .9210 .8210 0677. 0657. .6520 X/LB

.9990 1.0180 1.0460

.9600

.2790 -.0763 -.3815 .2480 -.0629 -.0878 -.1063 PH1 165.000 180.000

(XE8847)

PAGE 727

(XE8848) (05 AUG 75)

AMES 11-07310A1481 -140A/B/C/R ORB F155ELASE

PARAMETRIC DATA	RUDDER = -10.000 SPDBRK = 65.000 BDFLAP = 16.300 L-ELVN = 4.000 R-ELVN = 4.000 MACH = 1.250	P • 551.11 RN/L • 3.0241		0.055. 0.00 0.00 0.00 0.00 0.00 0.00 0.	017905360590 6110	2036153909161275 -	- 2740 - 1961 - 0472	25.7.	178541511312	3926225812560720	22911227714111825	5 3705 1812 1652 2567							
		600.37		.2040	0101	0698 2022	.0222	.0128	.0732	1.198	2652	3726	1.0460	. 1837	.0357				
		•		.1770						.6519	.7094		1.0180	. 2222	5470.				
		O		. 1660	0203	043¢ 105¢	. 0858 1.938	. 2385	6±6±.	.9228	.9785	1016.	9990				2712		
		1.2475	RE CP	.1580								1.0497	.9600	2982	3187			.0563	3054
	900 200 200	MACH	IT VARIABLE	.1120		0550	26.5	.3237	, 100 ·	.6081		.6052	.9210	.2496	1728 0025			. 1488	.2353
	76.6800 IN. .0000 IN. 75.0000 IN.	3.849 M	DEPENDENT	.0700		0337			, tab	.5331		. 5293	.8790		2066 1.402		G140	. 063a . 155a	.4353
	1076.6 .1 .375.6	# E		.0460	0.0643	.1:06	- LEO4.	ម្ចាស់ ម្ចាស ម្ចេ ម្ចេ ម្ចេ ម្ច ម្ចេ ម្ចេ ម្ច ម្ចេ ម្ច ម្ច ម្ច ម្ច ម្ច ម្ច ម្ច ម្ច ម្ ម ម្ច ម្ច	ų ,	.6467		.6130	.8210		- 1253 3159		302B	000 000 000 000 000 000 000 000 000 00	826±.
⋖	Spirit Chirt	BETA (1)	цg	.0230	1835	000 000 000 000 000 000 000 000 000 00	. 6658.	73+5	7	#00 		. 7335	.7790				190	7.60	1000 1000 1000 1000 1000 1000 1000 100
REFERENCE DATA	50.FT. In. In.		R FUSELA	. 0090	. 6280			. 32 30				1900-1	.7233	0245		ņ	. ପଟଞ୍ଚ	.1032	. 1235
PEFER	2693,0000 474,8300 935,0393 0300	-4.024	1 1 ORB! TE	. 0000	 							1,404,1	.6523		20/07- 20/37-	7,40	55.	មា (មា (មា (6 7 6 7 7 7 7 7
	SEFF = SCALE = SCALE =	ALPHA (11	SECTION (1) OPBITER FUSELAGE	x / ∟8	i c) () ()) () ()) () ()) () () () () ()	10				n prome v Color v C	1111 1111 1111 1111	di. ∀	D C) () () (r (n) () () () () () () () () () () () () () () () (. 1 () () () () () () ()

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-. 5556 -.0751 . 5598 <u>මුල</u>. මුලා මෙන ±970 -. 0657 -.0711 .3780 -. 1670 -. 3595 -.0865 -.1703 3780 -.0747 551.11 -.2472 -.3704 -.5530 -.2079 -.3167 -.4945 3010 .3010 -.0547 -.1725 -. 1481 -.0522 -. 1039 -. 1231 -.2490 -.3949 -.0047 -.1341 -.3385 -.3212 -.2742 .2510 -.0972 .2510 -.4052 -.0130 -.3649 -.3496 a. .2040 .2040 -.3411 1.0460 3 500.37 600° AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE .1770 .2104 .0766 .1770 1.0180 5.60.4 5.60.9 5.60.9 6.60.9 6.60.9 6.60.9 7.75 -.0093 -.0521 -.0531 .1358 .1358 0666. 9+37 2993 .1653 . 1660 a O -.2978 -.3038 -.1338 -.0973 1.2475 .9600 1.0440 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0326 -.0256 .0562 .1800 .2272 .9210 - . 2506 - . 1508 - . 0348 - . 0348 .1120 .0304 .0167 .0167 .0973 .1225 .1120 .6160 TACH. MACH -.1976 -.1990 .0527 -.021i .0730 .2700 .00440 .0047 .00163 .0016 .1976 .1976 .8790 : 189 4.273 -.1176 -.1136 -.2969 -.2625 1350 4535 4821 0469 0469 0583 1382 1917 1917 4183 .0563 .0527 .0317 .2199 .3714 .3714 .8210 3 -.0525 -.0690 -.1132 -.2230 -.3312 .4563 4763 4763 4763 4866 . 3830 .0230 1483 1483 1401 .7790 BETA 1:09BITER FUSELAGE 110781TER FUSELAGE -. 0050 -. 0412 6773 0000 6:55 . 9083 .6295 .7866 9398 .7293 -. 324g .1052 .:200 . 1334 -4.2GB .0374 .0579 .0528 .0396 .0329 .0252 0000 .6520 . 3327 1.4108 1) K œ ... ×

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B (AMES)	
TA - 0414	
TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1	
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DATE 10 FEB 76	

DATE 10 FEB	EB 76		TABULATED	Œ	ESSURE DATA	- 0A148	3 (AMES	11-073-1						PAGE	729
				AMES	=	-073(0A148) -	-140A/B/C/R	ORB B	FUSELAGE			(XE8848)	348)		
ALPHA (1)	n	-4.015 8	BETA (3)	# 7	.273										
SECTION	(1) ORBITER	ER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	RE CP								
4/LB	. 0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740
PH1 140.000 150.000			.6812	. 5655	.4407	.5061		. 7658	.4576	3196	3925	1993	2238	0885	
162.000 165.000 163.000								.9036	. 5651	2795	4146	1649	1911	0963	
000 000 100 100 100 100 100 100 100 100	1.3927	.978	.7385	.6157	. 5233	.5998	.9875	.9274		3830	3492	1795	1637	0991	
x /:a	.6523	.7293	0677.	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460					
T 60000		0201	0575 0485 .1453 .2188 .3054	1185 1067 2905 2589 E94	1988 2054 .0830 .0095		2930 2930 1632 1427		. 1121	.0547					
, 0 0000	. 0542 . 0136 . 0066	1241. 5721.	3175 .4066 .4351 .4437 .4595	.5069 .5069 .5069	1523 0455 .0629 .2820	2402 1132 0576	2655 1464 1278 3836	3067							
ALPHA (2		915 BE	BETA (1)	.4.	.869	MACH	1.2450	o	= 599.	92	۵.	- 552.04	FRV'.	•	3.0247
SEC 110N	(110RB1T6	110RBITER FUSELASE	43E		DEPENDENT	T VARIABLE	LE CP								
X 1.3	0000.	.6087	. 0230	.0460	. 0700	.1120	.1580	.1660	0771.	0402.	.2510	3010	.3780	0.4970	.5740
± 888		.7574	3301	.1503	.0804	.0080 .0488		.0120		.0220	.0204	0081	0284	0571	0560
ដូច្ចិត្ត ពិសិស្សិត		. 8975	.6918 .5918 .7183	.3745 .4305 .4746 .5418	. 3251 . 3251 . 3294	. 1841 . 2728 . 3221 . 4709		. 1657 . 2275 . 4475.		. 0889 . 1248 . 0867	2565 2381 1852	1030 1957 4086	0824 1254 1643	0340 0345 0825	
del del			.6839	.5345	. 762	5194		.6979	412	2313	-,4562	3028	1700	0935	
							1.0035	6. 6.	.6791	3215	4007	-, 2998	1865	0843	

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(XE8848)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

.5740 4970 -.0810 R .3780 -.2082 552.04 .3010 -. P443 . 85 85 -.4283 ٥ .2040 -.4250 1.0460 .1111 599.95 .1770 1.0180 .2611 .1687 . 1660 .9990 .8679 -.3089 -.2484 O -.2254 -.2377 -.1310 -.1393 -.1244 -.0435 -.0095 -.3289 . 1580 .9600 1.2460 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .189 MACH = .1120 .9210 -.1802 -.0901 -.0596 -.0499 .5115 .0700 -.1207 -.1380 .0723 .0464 -.0208 -.0476 -.0208 -.0513 .3992 .9790 -3.869 -.0502 -.0504 -.0504 -.1519 -.1519 £864. .8210 .2142 .3597 .3634 .0460 .3607 ti BETA (1) .020 BETA (2) .6110 .7790 .0073 -.0104 -.1716 -.0528 .3341 .3896 .3766 .3693 . 0230 SECTION (110RBITER FUSELAGE SECTION (110RBITER FUSELAGE .0080 .8796 .7290 -.1021 .0191 -.0133 1440. .0976 .012 1.4118 .6520 ALPHA (2) ALPHA . 21 PH1 130.000 . 000 40.000 90.000 105.000 1110 120.000 135.000 150.000 150.000 175.0000 175. Ï

.5740 -.0531 3.0247 .4970 -.0439 -.0722 -.0583 -.0592 -.0559 -.0575 -.1402 -.1647 -.1640 -,0306 -. 1836 .3780 -.0313 -.2029 -.2093 .3010 -.1782 -.2761 -.4793 -.0036 -.2176 -.0524 -.3165 -.2440 -.3065 -.3018 -.2718 2510 .0305 -.0432 -. 3953 -.4679 -.4633 .0392 .0047 .0312 .0527 .0649 .0245 .1140 .2040 -.4600 -. 3261 1.0460 .1770 .5±79 .6158 1.0180 .2804 .1660 .0194 .0316 .0531 .1321 .1722 .2041 .9990 8237 .915t 9020 6066. .1580 .9600 -.2288 -.2298 .1120 -.1769 .0160 .0430 .1295 .1817 .2284 4919 .5233 .9210 -.1223 .0700 1052 0814 1170 2046 2263 2372 3176 ¥095 .8790 -.0462 1490 1619 2001 2839 3235 3643 4547 .0460 .5029 .8210 5064 3017 3724 1428 5785 5765 6097 6487 5403 .6218 .7790 .00137 . 0230 .0080 7549 .7594 8706 .7290 .0196 .0135 1.4164 .5520 1.4:6 X/LB

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(XE8848)

TABULATED PRESSURE DATA - DAING (AMES 11-073-1)

AFES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .:83 (8) 7,38 . 323 .5 : ====

			3.0247		.5740	0527	0374							
			•		.4970	0640	DB14	0496 0454 0519	0655	0697	0820			
			RN/L		.3780	0269	0366	1751 1706 1716	2292	2249	2051			
			552.04		.3010	.0025	. 0465	2254 3290 5336	.2671	2277	· 4142*-			
			.		.2510	.0230 -	- 7610	3542 - 3636 - 3589 -	4378 -	4756	4123			
	1.0460		92		.2040	.0190			3783	3358	4383	1.0460	.0829	
	1.0180		± 599.		0771.		•	••		.5374	·	1.0180	. 1631	
	ე666.	3433	o		.1660	0039	.0034	.1167 .1167 .1365	.7435	0	.8865	0666.		3468 3468
LE CP	.9600	1719 1590 1931 2272 1213	35¢¢ 1.2460	LE CP	.1580						₹. 6.	.9600	2303 2243 2090 1940	3233 2099 1853
T VARIABLE	.9210	0952 0902 1570 1840 0924		IT VARIABLE	.1120	!	0025 . 0108	.0525 .0994 .3148	.4337		.5046	.9210	1785 1194 1291 1364	2870 1654 1017
DEPENCENT	.8790	. 0223 - 0226 - 0921 - 0824 - 0017	3	DEPENDENT	.0700	1089	. 634. 0.00. 5.00.	3356 1422 1403 1403 1403	. 3265		.3938	.8790	1.0034 1.0034 1.0034	1693 0757 0235
	.8210	.1696 .1237 .1226 .:776 .3774	.4729		0970.			. 1982 . 137 . 1555 . 3668	.4689		. 5957	.8210		. 3300 . 3300 . 34:6
H	.7790	- 1217 - 0759 - 2080 - 2947 - 2850	. 355 	AGE	.0230	7663	ម្ចា ម្ចាស់ ម្ចាស់		.5970		.6175	.7790	ម្ភាស់ មួយ	
BITEP FUSELAGE	.7290	0479 0332	00 CO #:	R FUSEL	.0360	.7478		.6194			.848	.7290		. 0999 8099
3116±0×1	.5520	- 68 B S		1.0991*E	0000.	8 1.10 1.10					1.4046	.6523		#980°
	87. X	10000000000000000000000000000000000000	(1.) (16) (16) (10) (10) (10) (10)	201 x 040	B.7.★			() () () () () () () () () () (() (() (†) ()	m _j		

DATE 10 FEB 76

BETA (3) =

.014

ALPHA (2) =

DATE 10 FEB 76

8848)

SECTION (1) OPBITER FUSELAGE	1) ORBITE	R FUSELA	IGE		DEPENDE	DEPENDENT VARIABLE	E CP								
אירם	.6520	.7290	.7790	.8210	.8790	.9210	.9600	3666 .	1.0180	1.0460					
PH1 165.000 180.000	.0032	. 0955	.3593 .3593	.3727	. 2093	0123	3829								
4[PHA (3)	3.961		BETA (11	" "J	-3.873 M	MACH	1.2462	o	= 600	91.009	•	552.05	RN/L	•	3.0262
SECTION (11CRBITER FUSELAGE	7 FUSELA	GE		DEPENDE	DEPENDENT VARIABLE	SLE CP								
e10	. 0000	.0080	.0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	3010	.3780	0764.	.5740
1Hd	#00# 1	5952	1. 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	744	1660			ומקבע		1551	05.30	0.283	1620	9410	0188
83.000			4606	2838	. 1627	.075.		2990		.0328))	
40.000			.6051	3463	. 2235	++61		.1:27		.0363	. 0295	.0128	.0460	0188	0009
77,000			18/6.	5044	3670	ָּהָלְאָלָהְיִיּ		2500			1000	1070	0750	1055	
90.00		.8527	6639.	.4623	3251	6062.		. 2921			2175		1324	- 1009	
120.020			.6532	.4680	.3192	.3793		.5066			1979		2750	:737	
187.000 000.000			5698	5154	9678	4193		87.36		. 0224	.5097	- 3936	-, 1942	1013	
151.000									.6146						
165.000 169.000							į	.9081		3720	4658	3606	2088	0751	
180.000	1.4004	.7450	.4851	.4036	.2673	.4081	. 9543	.8277		-,4764	4746	2934	2300	0664	
C/LB	.6520	.7290	0677.	.8210	.8790	.9210	0096.	.9990	1.0189	1.0460					
PHI 1000 1	. 0801 - 0538 - 0538 - 0.087 - 0801 - 0207 - 0108	. 1361 . 1361 . 1363 . 0967	0878 	.0355 .0359 .0369 .0466 .1156 .1493 .2592	0372 0563 0341 0305 0905 0819 0819	1033 0268 1099 1792 1792 2241 1262 1262 1262 1262 1262 1262 1262 1262	1519 1704 158 1916 1890 1320	-, 2883 -, 2883	.2686						
		!!!		1											

e e		3.0262		.5740	0128	3.0262		.5740	0209	02 9
j S				.4970	0091 0238 1140 1074 0585 0475	ti		0.4970	0127	0426 :105 0953 0710
	6	RN/L		.3780	.0248 .0274 .1336 .1885 .2203 .1873 .2269	FN/L		.3780	.0290	.0080 1847 222 1696
	(XE8848)	= 552.05		.3010		= 552.05		.3010	.0507	.0109 2057 2643 5132
		۵.		.2510	5142	۵.		2510	.0596	.0457 3054 3271
		. 16		.2040		. 16		.2040	.0483	. 0320 - 0320 - 0945
_	FUSELAGE	= 600		.1770	. 593% . 593% 1. 0180	= 600.16		077:		
11-073-1	8	o		. 1660	.0585 .0665 .1106 .1373 .5326 .4326 .8622 .9330	a		.1660	.0430	. 1555 1399 1698 3398
(AMES	-140A/B/C/R	1.2462	LE CP	.1580	. 9341 . 9600 . 1610 . 1658 . 2195 . 2490 . 2606 . 2490 . 3604	1.2452	LE CP	.1580		
- 0/2148	-073(0A148) -	E	T VARIABLE	.1120	. 1013 . 1013 . 11436 . 1808 . 3172 . 4010 . 4010 . 4010 . 1013 . 1013 . 1013 . 1013 . 1013 . 1013 . 1013 . 1013	# **	T VARIABLE	.1120	05.7 0	.0586 .0626 .0751 .0809
URE DATA	=	185 MACH	DEPE: JOENT	.0700	25.23 2.25.23 2.25.23 2.25.23 2.25.23 2.25.23 2.25.23 3.25.23	.240 MACH	DEPENSENT	.0700	. 1896	17:5 1577 1577 1639
TABULATED PRESSURE	AMES	u	_	.0460				09+0.	9000 0000 0000	57.75 57.75 57.75 57.75 57.50 57.50 57.50
TABULATI		TA (2)	띯	.0230	4179 4173	. 2781 TA (3)	ы	. 6230	ថា ម មា ម ភ ។	
		SO BETA	PUSELAGE	.0083	35.0 35.0 33.8 34.5 30.3	. 3369 954 BET	R FUSELAGE	.0090	in in	7172.
į2		= 3.950	: YORBITER	. 0000	1.404.1 1.454.1 .0331 .0533 0593 0593 0170	897 5 ₹.	13 CPB1 TE	. 0000	: : : :	
DATE 10 FEE		ALPHA (3)	SECTION (87.X	# 8988888888888888888888888888888888888	m : 4 m	SECTION (m ×	1	in the tree

(XE8B48)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

DATE 10 FEB 76

3.964 ITER F	= 3.964 BETA (3	3) H	•	240 DEPENDE≪T VARIABLE	BLE CP								
0080 .0230		.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	076 ⁴ .	.5740
.4923		.3877	.2082	. 3423		.7219	.4391	2632	5027	3268	2156	0492	
					į	.8321	.5173	3808	5168	2749	2401	0546	
7127 .5045		.4131	.2671	.3976	n D	.8505		+064	4576	2874	2250	0569	
7290 .7790		.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
.0825 .0912 .1091 .20022056 13140143		.0380 .0547 .0212 .0130	0366 0548 0777 1313	1022 0475 1747 1815	1591 1666 2452 2285	2021	.3736	.1536					
. 2479		.0239 .2420 .2398 .3047	1898 1344 0482 1865	3356 2113 1488 0550	4189 2552 2224 3896	3627							
BETA (1) =	_	,	.868 M	MACH .	1.2462	O	• 600	600.16	۵.	• 552.05	RN/L		3.0273
FUSELAGE			DEPENDENT	VT VARIABLE	RE CP								
0080 .0230		.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740
0057 .5428 .5941		.3785	.2583	. 1622		.1148		.0960	.1003	. 0925	1160.	\$6±0.	28+0.
. 6955 7.127 . 6907	• • •	15.00 15.00	. 3233 . 3636 . 3259	8000 4049 4049		. 1822 . 2314 . 2477		. 1802 . 1946	. 1269		. 1099	. :535	.0666
	• •	3893	. 2569	25055		. 2931 . 4964		1635 1071	2005	0979	1313 4305	1822 2922	
. 4528	•	3358	. 1829	.2319		. 8544	.5958	2107	5560	4751	2307	:165	
					0688.	.8796	.6219	4200	5164	- 4056	2164	0816	

.5740

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

.4970 .4970 9640. -.0644 .0369 -.2041 -.1735 -.1699 -.0716 RNI .3780 -.2279 .3780 -.1308 -.1872 -.3652 . 0890 .0836 -. 1954 552.05 .3010 -. 3231 .3010 -.1383 -.1756 -.4534 .1017 .0744 -.4241 -.5079 .2510 -.2193 -.2503 -.2715 .2510 .0987 .1109 -. 5574 .2040 -.5148 . 1112 . 0939 . 1062 . 1371 . 1454 . 0949 . 0250 - . 0769 1.0460 .2040 600.16 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .4749 .3745 1.0180 .:770 .1770 0666. . 1660 .7915 -.3456 . 1660 1125 11483 1483 1662 1917 2414 4399 7674 O -.1144 -.1792 -.2096 . 1580 .9600 1.2462 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 .9210 -.0254 .0441 -.1482 -.1738 .2342 . 1120 .178 MACH .0700 -.1148 .1744 .8790 -.1650 .0700 2742 2846 2846 2898 23391 2200 1938 -3.868 .0460 .3172 .8210 . 1878 - 1854 - 1850 - 02:9 9785 1676 2125 6814 .0463 BETA (1) = <u></u> .0230 .3675 .7790 \$271. \$271. \$355. \$365. \$656. 0318 . 3230 11.834 1834 5433 5607 6149 6106 5704 5501 4999 BETA SECTION (1) ORBITER FUSELAGE SECTION (1) CPBITER FUSELAGE .0080 -.0345 .7290 -.25551 -.2002 -.0033 .6081 .132! -.1639 . 0230 1.0093 8.000 7.898 .0000 -.0720 -.0413 -.0335 1.3698 -.1742 .6520 . 8000 1.3737 ALPHA (4) ALPin (4) PH1 180.000 X/L9 X/LB

.0524

-.0508

-.2067

-.3350

-.4857

-.4130

.8310 8223 .9990

.8645

2485 .9210

.3167 .8210

5892 .7293

1.3.37

15753

.5257

-.0435

-. 22⁴4

-.3015

-.5518

-.5501 1.0450

1.0180

.9600

.8790

.3500

-.0872

-.0215

.0526

.1323

.2005

.1459

. 1.65

STOTION (1) ORBITER FUSELAGE

PAGE 738

(XE8B48)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE BETA (2) 8.000 ALPHA (4) =

									3.0273			5740	.0401	.0304												
									*			.4970	.0488	.0054	2112	0953	0464	0434		0629						
									5 RN/L		ļ	.3/80	.0912	.0585	1855	2569	1925	2286		2317						
									= 552.05		6	9700	.1009	.0634	1840	4464	3634	3085		3172						
								1	<u>.</u>		ָ ניני	1.010	. 0900	. 0856	2561	3342	5615	5380		ດ ກະ.						
		1.0460						ç	D00.15		שטבי		. 0929	.0573			4153	422	200	. מאנו	1.0460	1	. 25.54 72.15.			
		1.0180							i 1		0771.						.4360	.499 6			1.7180	1	.3382			
	C				3431			c	3		.1660		.1065	.0778	.1388	1000	. 7016	30B	8205		0888				4329	5
ABLE CP		•	2227 2369 2852		3615			1,7462		בר הרי	.1580								. 8354	0000	0000	0955	# C	2769 3225		2857
DEPENDENT VARIABLE	0.00	•	1882 2038 3137		2881			MACH		IN VARIABLE	.1120		. 1211	. 1245	. 0679 . 0669 . 1305		.1816		.2242	0100		0274	.0261			2037
DEPEND		•	113; 225; 2903		1650 0845	0126	!	4.235 M	DEBENDENT		.0700		.2527	.1972	1376 1376		1811.		. 1692	9790				2255		- 1459
	.8210		0983 0132 0620		. 24.33 . 24.33 . 34.33	' .	.4764	3) = 4			.0460		.3876	. 3337 . 2780	5413 19179	21.00	-		.3377	.8210				0467		1. 2. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.
LAGE	.7790		3196 2594 0352	1132		1993	.227.	BETA (3	AGE		. 0230		.5370	0004 0004	. 4325 4325	3775			. 3869	CELL.		.1798		135: . 0271	879	. 1930 . 2315
1:CRBITER FUSELAGE	.7290		2470 1951	0831	E O	•	U328	033 8	ER FUSELAGE		.0080		. 9950		. 5275				.5674	.7290		. 1483	.2977		0669	0070
~	.6520		1362	0722	Ñ	0150	- - -	ii .	(1:ORBITER	1	5000.	į	1.3606						1.3606	. 5523			(C)	5	2610	- :3:5:-
ST LOES	X/LB		동명원급	30°3	88	6 6 6 7		ALPHA (4)	SECTION	\$	אַרבּ	1.T.G.	80.000 40.000	55.000 70.00°	90.000 120.000 140.000	150.000	151,000 162,000	169,000 169,000 174,000	180.000	X/LB	Ä	ခြင့်	000	198.000 198.000 198.000	20.000 35.000	50.000

0A148 (AMES 11-073-1

(XE8B48)				;	= 552.98 RN/L = 3.0281				1428 .1362 .1628 .1218 .1354	2008 .1574 .1786 .1244 .1602.	1605160580:515 1607541226:1937 15382255924342		.5961536127621559	574448923941028		-,5363 -,3429 -,2090 -,5511						
			1.0460		<u>a</u>			. 2040s.	•		.1742 .21331208 .19611716		•	46425574		54895	0.0460	.4175				
, SELAGE			1.0180 1.0		= 599.95			. 0771.	7	, ,			.5819			ï	1.0180 1.	. 5654 4354				
11-U/3-1 / :/R ORB FUSELAGE			. 9990		ď			. 1660	. 1902	. 1990	. 1985 . 1891 . 2411	. 407a	.8397		.8472	7617	0666.		Ó	2972		
0A148 (AMES 11- 48) -140A/B/C/R		E CP	.9600	4053	.2450	J.		.1580								.7867	.9600	0334	1761 1683 2086	3117	2609	
•		VARIABLE	.9210	1347	_ ,	TADIADI F		.1120		3004	2496 2374 2006	.1728	. 1412			.1271	.9210	.0359		2751		
PRESSURE DATA - DATA AMES 11-073(0A148)	35	DEPENDENT	.8790	- 1195	154 MACH	THEOREM	JETE NOTES	.0700	.3576	3534	.3847 .3159 .278+	. 1763	.1134			. 0983	.8793	.1207	1939 2341 2751	1823		
ă.	= 4.235	D	.8210	.3953	-3.854		J	. 0460	400			3335	.2301			.2315	.8210	8	2, 000 0, 000 0 000 00		3068	
TABULATED	33	μį	.7790	. 1826 . 1557		•	F.	. 8230	7. 1.	1807.	. 7355 . 6514 . 6508	87/43	.3350			.2513	3677.		1 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 .	1.007 0.00 0.00 0.00		
	3 BETA	PUSELAGE	.7290	.0026	7.345		a ruselase	. 0080			.7507					.4611	. 7290	2715.	-, 3618 -, 2855	8351	208+	
3 7	= 8.003	110RBITER	.6520	6207 0391	550 !! -	:	1107817ER	. 833B	0							3185	•	<u>(1)</u>	1	£.33	ni m C)	
DATE 10 FEB	ALPHA (4)	SECTION (X/LB	PH1 165.030	, i		SECT: 35 C	× ≀ea	97. 10.	ກ ຕຸດ ຕຸດ (ພັນ ຕຸດ (ພັນ	3 4 4 4 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		() () () () () () () () () () () ()	6 6 6 5 6 6	10000		(B) (X	•	5000 5000 5000 5000 5000 5000	()()()		

	183		5740	372	1367										=		5740	1326	1130	
r	3.0281		•	7	•										3.0281		ij	=======================================	-11	
	RN/L		.4970	.1278	.1380	2551 2551 25551	#1E0	0-71	0395						. ۔		0.6970	. 1231	.0536	3031 5-5- 2-1
(XE8848)			.3780	.1633	.1438	1281 1831 5511	2186	1965	1955						FRAZL		.3780	.1635	.1138	1998 2380 3522
(XE	= 552.98		.3010	1554	.1338	1223	4738	3600	3223						552.98		.3010	. 1478	.1067	1755
	۵		.2510	.1344	.1532	1757 2259 266u	5930	5180	5746						•		.2510	366	1011	2074 2689 3259
	599.95		.2040	. 1686	1165	. 1655 1348 0476	0527	-,4468	5713	1.0460	2014	2610			85		. 2040	1558	.0472 50472	. 0748 0241
ORB FUSELAGE	# 000		0771.					.5169 .5475		1.0180	5528	13.			= 599.95		.1770			·
	ø		. 1660	. 2005.	2007	. 1262 . 2031 . 4244	7447	7807	.7759	.9990			4382 3928		o		.1660	. 1806	1351	.0640 .1714 .3777
-140A/B/C/R	1.2450	ABLE CP	.1580						. 7840	.9630	0275	0611 2395 2949	3882 2886	4006	1.2450	E CP	.1580			
11-073(04148)	MACH #	VARI	.1120	Č	2409 1519	. 1526 . 1525 . 1307	.1307		.1357	.9210			3039	1042	u	T VARIABLE	.1120	1. 7.02	1673	.0501 .0501 .0854
	.176 M	DEPENDENT	.0700	97.18	3622	.2000 .1399	.0892		1660.	.8790		. 2563 3021 3541	2066	. 1625	253 MACH	CEPENDENT	.0730	. 35542 5757 7757	. 2910 1925	. 1427 . 1257 . 0 959
AMES	#		.0460	18995 18995 18995	.3970	.3386 .3087 .5537	.2533		. 2365	.8210		.2314 2024 1027 0018	1.0303	ı m	11	•	.0460	000 000 11	. 4035 . 2821	.2333 .2330 .1943
	BETA (2	AGE	.0230	.6561	.6873	M M D C C C C C C C C C C C C C C C C C	3:85		.2655	.7793	9969	.3172 4224 3407 1922	. 0.401 1040.	.1135	TA (3)	સ	. 5230	.6536	ម្ចាស់ មានក្រុម ពេល ប្រាស់ ពេល ប្រាស់	51877. 6277. 627. 627.
	35.0	ER FUSEL	.0083	1.1154		.6078			. 4368	.7290	. 3023	3873 2555	1324 E932	0197	93E BETA	R FUSELA	. 0280	:.1330		ນ+9+.
		1.18eC . 1	. 3333	1.3220					1.3220	. 6520	8-51.	- 8353 - 8353 - 1453	.0640	0407	6.11	11CPBITER FUSELAGE	0000.	9::8::		
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TABULATED PRESSURE DATA - DA148 (AMES 11-073-1)

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ED PRESSURE DATA - OAI48 (AMES 11-073-1) AMES 11-073(OAI48) -140A/B/C/R ORB FUSELAGE

.4970 1.040. -.0556 -.0605 -. 1847 .3780 -. 1945 -.2180 -.4025 .3010 -.3315 -.3456 .2510 -.5931 -. 5440 -.5176 -. 4548 .2040 -. 1508 -. 4099 -.5598 1.0460 .4173 .1770 1.0180 .4321 .5601 . 1660 .9990 .6626 .7609 .7935 . 1580 .7+80 .9630 DEPENDENT VARIABLE CP .1120 5760. 0255 C842 - 2759 - 2930 - 4558 . 1135 .9210 .070 .0599 1035 C578. .2290 .0460 .2533 . 8813 <u>@</u> .0230 . 2913 **€**1 (c) BETA 1 ORBITER FUSELAGE 0000. m Gu, 5750.-11.935 cons. th M -- t th (a) M (b) to (A.PHA ei X

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

PAGE 740	(XE8849) (05 AUG 75)	PARAMETRIC DATA	RUDDER = -10.000 SPCBRK = 85.300 80FLAP = 16.300 L-ELVN = 4.500 R-ELVN = 4.000 MACH = 1.100
	AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE	WIFERCE DATA	2890.0000 S0.FT.

	RUDDER = -10.000 SPCBRK = 65.300 BOFLAP = 16.300 L-ELVN = 4.900 R-ELVN = 4.000 MACH = 1.100	1.1001 0 = 600.26 P = 708.59 RN/L = 3.1930		0550 0764. 0376. 0105. 0510 0405. 0711. 0511. 0511.	0620086814401293	1610253123822009157814700503	0530 0172401317410852	.15210814352932560550.77398701722899542110905393	2918513532891679	. 6010 . 6010 . 6877 - 4813 - 2815 - 4444 4444 6877	9761 3	09+0:1 0810:1 0666: 0096:	334 . 2628 . 1893 679 . 1273 . 0789 780	- 4229 - 3282 - 3282 - 573	7,
	1 IN. XO 1 IN. YO 1 IN. ZO	MACH	DEPENDENT VARIABLE	. 0211 6070.			6942 . 4663 .		5483 .5800	,	.9. 5388 .5760	8790 .9210 .3E	243429413334 .257823493679 .075110592103 .045609771780	0965 .0310	1
	YMSP = 1076.6830 YMSP = .0000 ZMSP = 375.0000	8-8.5- = (1)	130	0230 . 0460 .C	. 2708		3.75	£909.	839 .6428 .5		7254 .6112 .5	. 8210 . 877	777 - 1434 - 7578 2599 - 3508 - 0751 359 - 3508 - 0751 359 - 3508 - 0751 3159 - 3515 - 7777	. 4223. . 4183. . 5518.)))
		-4.38 BETA	1.ORBITER FUSELAGE	ი იიცი .	5-97	m i		ָּטָרָי. מַנְיִי	ë.		. 9758	. 7893	0256 .065+	8 - 2655 - 4769 - 5555 - 1 5552 - 7665 - 1	
1	COC (() (A) (COC) (() (A) (COC) (() () () () () (() () () () (() () ()	# 1 / ###J#	(880:1) NC1.035	x/€B . 3000	m m coc) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	000 1000 1000 1000 1000 1000	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		x/L9 .6520	PH1 COC - 0654 40.COC - 14.13 70.COC - 14.13 90.COC - 14.13 155.COC - 153.30	130 000 180 00	

PAGE 741	(XE8949)	708.59 RN/L = 3.1930		3010 . 3780 . 4970 . 5740	.1423129209740208 .1917144011410088 .244011270254 .404611220178 .619615230242	.283821203282	.25372254C:49 .235123::C:37			708.59 PW/L = 3.1930		ತರ್ಯ ತಾಣಕ್ಕೆ ಅತ್ಯಾ ಎಂದು	.1954134016530336 .191114468522 .0171 .333211292 50 .45732272 51 .69312175[-15
		a .		.2510	1945 - 1945 - 4703 - 4306 -	5115 -	- 5844			• a		2510	# 6000 # 6000 # 6000 # 7500 #
		ĸ.		.2040	0487 0948 1799 1058 0855 2002	2372	-,4464	1.0453	. 0775 . 0775	8.		.20+0	0.000000000000000000000000000000000000
	FUSELAGE	₽ 600.		0771.		7000		1.0180	. 168 . 168	• 600		3771.	
(AMES !1-073-1	8	o		. 1660	0100 0359 0184 0184 .0525 .0730	. 7619	.8593	0666.	4552 3742	ø		. 1653	1.1.1 1.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
9 (AMES	-140A/B/C/R	1.1001	ABLE CP	.1580			6956.	.9600	1.8194 1.82894 1.82894 1.8283 1.833	1.1001	BLE CP	. 1580	
- CA148	148)	MACH	VARI	. i 120	0407 0402 .0551 .1675 .2035	.5385	.5835	.9210	2983 2478 2478 24745 2445 2445 2445 2475 2670 2670 2670 2670 2670 2670 2670 2670	3	NT VAPIAE	. : : 23	######################################
URE DATA	11-073COA	183 MA	DEPENDENT	.0700	4.00.4 4.00.3 4.00.3 1.00.9 6.00.3 6.	.5067	. 5+63	.8793		.27: MAC	43043u30	0000	
ED PRESSURE	AMES			.0460	. 0803 . 0678 . 0777 . 1973 . 5857 . 5532	.6733	5533	0158.		3		. 346.	្រុក ប្រកាសពី មាន ក្រុម មាន ក្កាន ក្រុម មាន ក្រុម មាន ក្រុម មាន ក្រុម មាន ក្រុម មាន ក្រុម មាន ក
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CA*E 13 FEB		A. D.A.	o Portion	an/k	# N. # W. P. C.	•		:1_			<i>i</i> *	···	

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AMES 11-073(0A148) -140A/B/C/R 038 FUSELAGE

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		57.40							3.1951		07.75°	DE B2			
		UV34.	# 6 4 1	0356	B				#		Orost.	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6487 1531 1635	6.33.4	\$ (1) (1) (2) (4)
		.3780	2875	0725	-,2179				PN/L		3780	CB19	ម្ចាស់ ម្ចាស់ ស្រួស	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	di Ni
		3010	2674	2384	2293				- 708.60		.3010	- 1199	1604 2332 5439	. 4183	3325.
		.2510	5262	m - d · •	1.422		•		· •		.2510	0335	3838 347: 2933	6093	† 5 1
		.2040	4677 472ê	4234	57:9	1.0460	. 1826 . 0663		1.53		. 2040	1.0095 1.0444 1.083	្តីស្តីស្តី ស្តីស្តីស្តីស្តី ស្តីស្តីស្តីស្តីស្តីស្តីស្តីស្តីស្តីស្តី		
		.1770	.3533	4538		1.0180	.1259 .1259		₽ 600		0771.			5226	5665
		. 1650	.6725	.8126	.8351	.9990	9 9 1	9999 9999 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	ø		.1650		1634	.8389	.8519
	3.E CP	.1580			11 16.	.9600	3347 3705 2957 2737	3466 2035 1941 4412	1.1003	CP CP	.1580				. 9355
	DEPENDENT VARIABLE	.1120	.4762		.5759	.9210	3016 2358 1805 2030	-,2985 -,1925 -,1359 -,0578	MACH	T VARIABL	.1120	8150. 8150. 6480.	. 3.18. . 3.18. . 3.18. . 3.18. . 3.18. . 3.18.	.5063	
.271	CEPENDE	. 2783	.4538		.5365	.8793	2504 3102 3102 0622	2837 1639 0474 1500	.855 m	DEPENDENT	0020.	7870. 6470. 380::	t t di	en En en en	
		09+0.	.			.8210	- 1606 -	. 6118.	1 = -3.		.0460	.1697 .1634 .2135	コチナい	ψ.	
BETA (3	L.) (*) 41	.0230	.6551		789+	.7790	7.00.1 25.0.1 25.0.5 7.5.5 2.4.5 6.0	######################################	BETA (1	4 0E	. 0230	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	າທາກ	. 8.759	
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	3.1860.1	0000.			1.3355	D≥53.	. 1732 1732 1732 1732	1581 + 0081 + 0081	"	1) 048; TER	0000.	1.3276			
ು ತನ್ನುತ	SECT : 01 (m Ž	 ក្រុក 1.បុក្ក ពិរយៈពេធ	######################################		ii ×	96999 96999 100099		A. PHA (2)	SECTION C	an/x	888	10000	7 G C	

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PRESSURE DATA - OA148 (AMES 11-073-1) AMES 11-073(OA148) -140A/B/C/R ORB FUSELAGE

			5740					3.1951		.5740	0287	-, 2005						
			.4970	0435						976 4 .	0975	0876	0535 0514 0460	0332	029+	0280		
6			.3780	2516				RN/L		.372	0857	0829	\$5.1.1 657.1.1	2011	2393	2497		
(XE8849)			.3010	3037				708.60		.3010	0896	1211	2181 3161 6046	3808	2937	2727		
			.2510	5207				# Q.		.2510	0310	0916	4375 4260 3833	5756	5148	6159		
			.2040	-, 6008	1.0460	.1210		.53		.2040	.0060	0718 0718	0270 0270 1378	4818	+964	5617	1.0460	.1077
USELAGE			.1770		1.0180	.2932		8 000		1770					.5059		1.0180	.3423 .1991
/R ORB FI			. 1660	.7729	0666.	(:	3570	o		. 1660	.0336	.0006	3000 8000 8000 8000 8000 8000 8000 8000	.7348	.8257	.8088	0666.	
-140A/B/C/R ORB FUSELAGE		LE CP	.1580		.9600	- 2555 - 2545 - 2548 - 2543 - 2510	1990 1274 1088 3873	1.1003	LE CP	. 1580						.9275	.9600	2637
		IT VARIABLE	.1120	.5002	.9210	2116 1418 1282 1371	1661 0755 0052	MACH #	IT VARIABLE	.1120		.0500	. 2964 . 3964 . 3963	.4800		.5113	.9210	2280
AMES 11-073(0A148)	3.866	DEPENDENT	.0700	1044.	8790	1418 1744 .0373 .0367	1446 1072 0126	185 MA	DEPENDENT	.0700	. 0808	. 0996 . 0996	1891. 1855. 1854. 1844.	420t		.4515	.8790	1628
AMES	1		.0460	.5099	.8210	0633 0515 0515 0515 	. 2878 . 4287 . 4030			.0460	.1738	. 1649 . 1906	. 3183 3183 . 3598 . 4590	11:3:		.5207	.8210	0507
	BETA (1)	GE GE	.0230	.6072	. 7790	.0813 .0800 .0800 .0840 .085	67 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	TA (2)	H	.0230	. 2628	. 2803 .404.	. 5123. 5123. 5833. 4186.	.6324		.6196	.7790	.0076 0450
	025 BE	R FUSELAGE	.0080	.8539	.7290	.057 6 1496 5988		.3a o£0	R FUSELAGE	. 0090	.6322		.7219			#G+B.	.7293	7543.
)	Ö	1) ORBITER	.3000	1.3276	.6520	######################################	មេ យុយមេ ម (សូម ម (សូម ម (សូម សូម សូម សូម សូម សូម សូម សូម សូម សូម	6	1:0981 TE	. 0000	1.3326					3326	.5523.	860: 10:00:
	A. PHA (2)	SECTION (x/LB	PH1 190.000	X/LB		0000000 0000000 0000000000000000000000	#_F= (2)	SECTION (е Х	1H9 1303	40.000	55.000 70.000 90.000 70.000		0000 0000 00000 00000		ш . Х	1

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BETA (2)

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.5740 -.0413 .0127 .4970 -.1053 -.0467 -.0287 -.0921 -.046 -.0438 .3780 -. 0860 -.2118 -.1689 -.1729 -.0961 - 25: 3 -.2605 -. 247. 708.60 .3010 -.2841 -.3757 -.6659 -.0908 -.1326 -.3013 -. 3029 -.3333 .2510 -.0412 -.0881 -.4840 -.4944 -.4828 -.5917 -.6162 -.5057 .9990 1.0180 1.0460 .2040 -.5050 -.6131 1.0460 .0832 **=** 600.53 .1770 .3395 1.0:80 .1785 -.4702 .1660 .0204 .0213 .0275 .0319 .0482 .0538 6563 .7785 0666. .7954 -,4995 -,4245 .9600 .1580 4.247 MACH = 1.1063 DEPENDENT VARIABLE CP .8736 .9600 DEPENDENT VARIABLE CP .9210 -.1522 -.1560 -.2081 .1120 -.2297 -.1427 -.0945 -.0329 .0275 .0593 .1087 .1483 .1638 .4276 .4985 .9210 .8790 .0508 -.1769 -.0998 -.0265 .0709 .0790 .0369 .0651 .1188 .1353 .3682 .4375 -.1603 -.1793 -.0490 -.1153 .8790 .2347 .2246 .1908 .2015 .4177 .4566 .8210 .5376 . 046ŋ .1728 .1506 .1586 .1998 .2175 .2502 -.0659 -.0582 .2042 .1895 .4697 .5121 .8210 .4795 .4026 BETA (3) .7790 . 0230 .2500 .2488 .3239 .3335 .4343 .4715 .6169 .7790 5731 .0120 .0228 .1120 .1651 .2766 .3647 .3338 SECTION (1) CRBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .7290 -.1489 .0853 .1918 .2006 .0090 .6756 .5731 .8215 .7290 -.1019 .2019 .0539 .1110 . 026 .6520 .0523 .0595 . 0947 . 0354 . 0947 .0000 1.3194 .5520 0901 0901 0+59 0819 1165 1.3194 .1073 ALPhA (2) 商北米 87/X

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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				3.1949		.5740	0453	.0095											
				•		.4970	0606	0682	1055 1053	0828	0609		0515						
				RN/L		.3780	- 0286	- 0066	1422 1991 3106		2278		- 5467						
				708.37		.3010	0338	0378	1288 - 1854 -		4502		3535						
				•		.2510	.0156	0146	3284 3430 3550	5743	601%		5858						
		1.0460				.2040	.0458	.0270		0830	5507		6550	1.0460	.2584				
		1.0180		= 600.49		.1770					. 5018 . 5341		·	1.0180	.3850				
		0666·		ø		.1660	.0913	. 0929 . 0929	. 1964 . 1964 . 2276	.7878		.8170	.7326	0666.			4466 3768		
	다. 단	.9600	4292	1.1004	E CP	.1580						0000	000	.9600	2154			1728	ה ה ה ה
;	T VARIABI	.9210	1286	u	DEPENDENT VARIABLE	.1120		. 1558	. 325 625 625 625 625 625 625 625 625 625 6	7614. 4360			.4308	.9210		1709 1824 2470		0756	
4.247	DEPENDENT VARIABLE	.8790	.1102	3.867 MACH	DEPENDEN	.0700	. 1732	. 1484	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 35c8			.3413	.8790		0216 0545 1314		100. 100.	
± u	_	.8210	.4682	: -3.	_	.0460	. 2629	7175.	7 t t t t t t t t t t t t t t t t t t t	.4385			6604.	8210		. 1589 1515 1515 1535	 		3785
[A (3)	м	0677.	.3977	TA (1)	ы	. 3233	575.	.5730	.65.139. .65.139.	.55HB			.4831	0677.		3129 +.0748 -1369	9725.	1 to 1	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0
S BETA	FUSELAC	.7290	.2185	PS BETA	PUSELAGE	0800.	.8225) 	.8257				6417.	. 7290	 t:69	+ . 2553 : 8553	3851	E 300	1. 1. 5. B. C.
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								.7876	.5052	6039	6807	5076	2386	0785	

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AMES 11-673(0A148) -140A/B/C/R 0R3 FUSEL.AGE

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

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		1.0460			. 80		. 2040	1094	.0739	. 0814 - 180. - 180.		5095	- ,7224 -	1.0460	.3027))	
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	DEPENDENT VARIABLE	.9210	1880 1959 2722	3325 2616 2170 1537	ıt	T VARIABLE	.1120	:	5 00 0 5 00 1	914: 1670 1850 7763:	.3370		.3567	.9210		2916 3874	3926 3485 3192
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		.8210	.0387 .0070 .0552	.3559 .3559 .3559 .5359	#		0 0 0	(e) (.) [igining gaman gam gaman gaman gaman gaman gaman gaman gaman gaman gaman gaman gam ga gaman gam gaman gaman gaman gaman gaman gaman gaman gaman gaman gaman gam ga ga ga ga ga ga ga ga ga ga ga ga ga	.2955		in Ui	.8210	093:	0187 0187 0184	# 6000 6000 6000 6000 6000 6000 6000 60
TA (2)	36	.7790	394 3 1933 134	មានាយល់ក មានស្រីសាក លោក និងសេ សាក្សីសាក	m The state of the	307	3230	(c)	ដូចជា ៥ នា រ	1 1 1 1 10 0 0 0 10 0 0 0	†m:		3739	3874.		- 1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	#601. #655 #166
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TABULATED PRESSURE DATA + DAIHB (AMES 11-073-1)

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					۵.		.2510	שרכי מרכי		.1385	2355	2987	7805		7323	6854		
			1.0460		599.65		. 2040	1873	1859	.2106	.1561	.0163	0930		6548	7460	1.0460	. 3253 . 1905
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\$(0A14B)		INT VARIABLE	.9210	. 2523	MACH =	DEPENDENT VARIABLE	.1120		.2530	.3168	2965	2833. 29463.	.3049			.3101	.9210	
11-07	4.232	DEPENDENT	.9790	.0140	3.845 P	OEPENDE	. 9700	3522	3498	4036	3072	1827	. 1283			. 1382	.8790	
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	349)			.3780	.1164	.0943	2025 2650 6916	2473	701 -		1762							FN/L		.3780	.1128	.0485	2790 3314 3625
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4 - 0A148	-073(0A148)	MACH =	VT VARIABLE	.1120	& <u>₹</u> .	. 1530	2100 2277 2009	.3104			.3258	.9210		2246 3303		3104	•	ţi.	T VARIABLE	.1120	F719	1937	.1502 .1856 .2705
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Ę	AMES	#		.0460	.4719 .4655	.3782	.3193 .2574 .2551	.2231		1	9,18,16	.8210	1632	1742 0954 0002		5.483	.5513	±		0940	1091 1091 1	3801	.2169 .1959 .1864
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	(XE8849)			.3010	6964	4263	4377			
				2510	7784	6980	6810			
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11-073-	C/R ORB I			. 1660	. 5952	6856	.6875	0666.	5257 4955	
TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)	-140A/B/		BLE CP	.1580			.7601	.9600	0943 1487 3011 2933 3843	43821 4030 4766
4 - 0A14	(0A148)		DEPENDENT VARIABLE CP	.1120	. 2939		.3165	.9210	0168 .0284 2762 2618 3774	1 . H . H . H . H . H . H . H . H . H .
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TED PRES	AME	n		.0460	-2119		.2395	.8210	1522 1738 1738 1757 1750 1750 1750 1750 1750 1750 1750	8155 8157 8158 8158
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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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AMIS 11-073(04148) -1404/8/0/P 098 FUSELAGE

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DEPENDENT	.370	7162.	.8790	22273 - 22522 - 1751 - 1750 - 1760	1.846 1.856 1.1663 1.1663		DEPENDENT	0020.			. 0613 0843 0844 0813			. 2955	.8790	2487
u	. 045G	.3617	.8210	0.000000000000000000000000000000000000	00 M 00 3 00 00 00 00 00 00 00 00 00 00 00 0	ţi	J	. 3463	.0023		. 1553 . 1553 . 3016			.3715	.82:0	2531
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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					3.5758		5740	. 6222	.0552								
					•		0.4970	. 0296	. 0223	.0378 .0378 .0258	¥0:0.	. 9690	.0059				
					RN/L		.3780	0138	. 0058	.0109 .0208 .0135	.0164	.0147	.0150				
					1060.0		.3010	. 1570	0506	0970 1612 2303	1190	0636	0614				
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		1.0460					.2040	1751	1883 2136	752 230 356 3602	9182	8741	1.0558	1.0460	.0319		
		1.0180			= 599.04		0771.					1836	•	1.0130	. 2967		
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	LE CP	.9600	1324 1750 2123	2761 2057 2055 3440	. 89953	LE CP	.1580						.7119	.9600	0038 0485	1771 2131 2243	2576 2552 3429
	DEPENDENT VARIABLE	.9210	1566 2155 2352	3524 2264 2048 1854	MACH #	CEPENDENT VARIABLE	.1120		1409 :166	0790 0401 0279 .1320	.2534		.3338	.9210	1802	3350 3876 5098	5776 4621 4313
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		.8210	.083E .0970 .1328	4 4 5 6 6 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	j H		.0455			5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			. 3583	.8210	2665 2525	. 04.22 . 04.22 . 04.22	. 3493 . 3494 . 4744
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AMES 11-073(04148) -140A/B/C/R CRB FUSELAGE

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			3.5790		5740	. 0855	1064									
			at		0764.	.0656	.0578		.0263	05-1	0183	0074	.0015			
			S RN/L		.3780	.0027	.0173		0300	0875	. 0053	. 0355	6440.			
			= 1057.6		.3010	0563	0399		1500		4252	4078	2713			
			۵		.2510	1306	1707		5786	6156	9978	8316	8976			
	1.0460		500.62		.2040	1016	1195	1087	1306	2574	4584	9602	-1.0915	1.0460	. 0298	
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	.9990		ø		. 1560	0905	1023	0099	. 0264	.2086	.6046	.6368	.5407	.9990	,	2650
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DEPENDENT VARIABLE	.9210	3593	MACH =	DEPENDENT VARIABLE	.1120		000 000	0460.	.1339	. 2567	.27!1		.2631	.9210	1740 1378 0776 1190	1995 1423 1188
DEPENDE	.8790	1594	-3.868 M	DEPENDE	.0700	.0166	0030	. 1821	.1920	. 2243	-2102		. 1920	.8790	1958 1827 1052 2489	3446 2979 2150
	.8210	.4271	ŋ		.0460	.1052	1684	.2807	.3149	. 3278	. 2896		.2646	.8210	1876 1737 .1155 .1352	. 1553 . 2391 . 1893
AGE	.7730	.2670 .2891	BETA (1)	; GE	.0230	.2156	£614.	ניים.	.5237	1 0 1	3714.		.3380	0677.	7.0590 0508 0507 0555 .0055	. 2518 . 2554 . 2554 . 2755
110RBITER FUSELAGE	.7290	.0937	3.999 Bi	1:ORBITER FUSELAGE	.0080	. 6560			.6872				.5708	.7290	.0100	1396 .0053
	.6520	.0139	Ħ		. 0000	1:1821							1.1951	.6520	.0557 .0350 2079 16.53	1784 0794 0576 0575
SECTION (X/LB	PH1 155.000 180.000	ALPHA (3)	SECTION (X/18	203. cc	10.000 10.000 10.000	20.1.00	90.000	180.000 140.600	150.000	165.000 165.000 169.000	. (2)	X/LB	# \$50000 000000 0000000000000000000000000	

PAGE 759		L = 3.5790		0465. 0764.	.0686 .0880	.0562 .1130	.0096 .0103	5.0103	.0051	. D115	, o127				3.5790		045. 0764.	.0690. 0691	.0521 .1068	.0070 .0068 .0028
	350)	S RN/L		.3780	.0145	. 0256	0307	0/10	. 0453	.0394	.0376				RN		.3780	. 0058	2600.	0307 0133 .0165
	(XE8820)	- 1057.6		.3010	0500	0550		casi	3739	-,2332	•.1625				= 1057.6		.3010	0712	0918	1392 1574 2645
		٥.		.2510	1318	1907	6508	•	-1.0306	9373	9410				<u>.</u>		.2510	1317	2072	7219
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11-073-1		ø		. 1660	0870	0865	0712 0580 0580	1 011	.5191	.6055	5 788	.9930	, ,	-, 2913 -, 2913	ø		.1560	0900	0650	1338 1359 1359
3 (AMES	-140A/B/C/R	. 90073	PLE CP	.1580						!	. 7223	. 4500	0009 0372 1211 1539	2372 2134 2145 3359	.90073	LE CP	.1580			
A - 0A148		MACH	UT VARTABLE	.1120	1 2 2 2	0145	.0611 .0795	1661.	. 2500		7475.	.9210	1791 1559 1375 1815	2884 2221 2288 2188	MACH	IT VARIABLE	.1120	0.50	1.0411	0065 0105 .1320
RESSURE DATA	AMES 11-07310A148)	. 18t	DEPENDENT	.0700	.0176	.0320	# 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BO T	1919		.2003	.8790	1824 1928 2039 2981	1.5672 1.2857 1.003	.239 MA	DEPENDENT	.0700	7500.		0091 0091 0587
Ď.	AME	#		.0460	25	2 22 (. 1856 . 1856 . 2041	t	יי. יי		.27.5	.8210	1.1785 1.1782 0554 0554 0714	800 th.	. u		.0463	1027	3 8. 8	09191 09191 1619
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			R FUSELAGE	.0080	.6700		.5373				80 80 80 80 80 80 80 80 80 80 80 80 80 8	.7293	10 00 00 00 00 00 00 00 00 00 00 00 00 0	. 1.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00	38 SC	A FUSEL	0000.	.6523		3748
76		# 4.003	1) OREITER	.0000	1.2018						2018	0253.	.0003 .0018 .2205 .1858	1161 0521 0445 048	.co.+ =	31188011	0000	 		
DATE 10 FEB		A. PHA (3)	SECTION (X/LB			an n n n n n n n n n n n n n n n n n n				y (° (°) (°) (°)	ත දි	ြောင်းများကို) (1 () (1) (1) (1)	4, 8H4 3;		m,			

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AMES 11-073(0A148) -140A/8/C/R ORB FUSELAGE

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BETA (3) =

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ALPHA (3) =

SECTION (1 1 ORB 1 TER	R FUSELAGE	4GE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	. 0000	.0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740
140.000 150.000 151.000			.3292	. 2344	. 1359	. 2041		.4311	6080	6790	9967	3301	1440	. 0065	
ເພິ່ນເກັນ								.5526	. 1498	9822	7531	2256	.0316	. 0060	
96.0	1.1862	.5368	.3521	.2420	. 1827	.2621	C#99.	. 5635	·	-1.1044	9532	2513	.0377	. 5011	
87/x	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
LL 11° Q1€1+	0233 0234 0234 0234 0234 1 0334 1 1 0334	.0100 3856 2746	- 0645 - 0452 - 1313 - 0570	1863 1668 0017 0053	1977 2144 3237 4108	2033 1993 2208 3500	0031 0485 1646 2002	į	.2016	.1087					
ましきしきしょくきじょ	0892 - 0459 - 0473 -	1083	. 1655 1. 1916 1. 1965 2. 173	.3276 .3276 .4279	6242 5163 4242 2151	6169 4852 4695 4157	2793 2305 2140	3082 3082							
ALPH4 (+)	# 8.040		BETA (1)	ø	-3.87c M	MACH #	.89937	a	* 595	599.61	•	1059.0	D FRV/L	•	3.5771
SECTION (110FBITER FUSELAGE	R FUSELA	IGE		DEPENDENT	NT VARIABLE	BLE CP								
x/LB	.0000	.0090	.0230	.0460	.0700	.1123	.1580	.1660	0771.	.2040	.2510	.3010	.3780	0.4970	.5740
C) C	1.1597	.8050	.3654	75207	7711.	, in the second		0106		0312	0493	0208	.0421	.1199	.1507
, () (5972	1858	1039		.0152 5272		. 0257 0257	0713	.0072	.0647	. 1192	. 1877
$\cdot \cdot $.6283	1587 1887 1887 1887	.2830 .2830 .2899	.1915 .1833 .1436	1521 1539 1967		. 0343 . 0458 . 2035			4909 6021 6484	1907 2381 4683	0876 0997 2423	0018 0183 1602	
. 0.0			.2893	1799	.1120	.2004		. 5824	2623	4836 4836	6453	4503	1386	0352	
មួយ ១០១១ ១០១១១ ១០១១១ ១០១១១ ១០១១១							.6965	. 5998	8692.	-1.0175	6415	5034	1115	0163	

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SECTION (1) ORBITER FUSELAGE	#GE		DEPENDENT	INT VARIABLE	IBLE CP								
x/LB	. 0000	. 0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	5740
PH1 90.000	1.1587	.4135	.2116	.1646	. 1099	.1974		.4961		8889	6409	4878	1124	.0056	
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
E COOR	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0136 5753. 7751.1 7949.1		1549 1610 1383 1754	2040 1737 1395 :944	0122 0731 1134 1641		.3854 .2513	. 1214					
	- 3006 - 175 - 175	2309 0985 0593	240 2511. 1011. 1011.	.2042 .2703 .2703	2645 5492 1026 10314	2444 1840 1596 1278	1875 1918 1951 3172	2564 2664							
Alpun (t)	# G.C	38 540	BETA (2)	,	.178 M	MACH	.89937	o	- 596	599.61	۵.	= 1059.0	J-NSI	•	3.5771
0:010	110981759	P FUSELAGE	IJ,		DEPENDENT	UT VAR! ABLE	BLE CP								
	. 0000	. 0080	. 0230	. 0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	.3780	0764.	.5740
#1 .000 3.000	1.1669	.8109	.3570 .3870	.2273	1249	7020		0054		0319	0542	0058	£5+0·	.1278	. 1535
88 88 88 88			44544. 43044.	25420	1395	.0703		0005		1.0000 1.0000 1.0000	1090	0468	.0510	.1089	. 1834
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6 6 (. 2758	. 16+3	.0952	.1952		1864.		8376	6383	4554	0157	6135	
								.5554	- 2070	-1.0313	6555	4346	. 0293	.0124	
(B)	1.1669	.4087	.2346	.1640	.1075	4115.	£099.	.5333	ī	1.1279	6437	3656	6610.	9600.	
	.6520	. 7293	0677.	.8210	.8790	.9210	.9500	0666.	1.0180	1.0466					
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X/LB	. 6520	.7290	.7790	.8210	.8790	.9210	m	9990	1.0180	0460					
PE 90 90 90 90 90 90 90 90 90 90 90 90 90	3059 2461	. 6145 9824. 1	1825 1049 0016	.0178 .0155 .0154	2164 2849 3779	2465 2778 3757	1557 1796 2206								
	2010 1187 10:0	1048 1585	.0999 .0999 .1227 .1410	.2998 .4298 .3908	4732 4112 3125 1292	3655 2878 2623 2517	2439 2373 2286 3266	3768 2855							
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ED	. 043 E	BETA (3	±	. 236	MACH =	.89937	o	= 599.6	===	 ھ	= 1059.0	RN/L		3.5771
SCI LINE	.1960(1)	TER FUSELAGE	, AGE		DEPENDENT	VT VARIABLE	BLE CP								
m⁻.;×	. 6050	.0080	.0230	.0460	.0700	.1120	.1580	. 1660	. 1770	2040	.2510	.3010	.3780	.4970	5743
1	1.1509	.7930	.3562	. 2235		Cat		0099	i .	0290	0681	0250	17.00	.1155	.1430
2 (a)			.3017			. 0259 . 0259 . 0259		0337	ři	0966 0966	1652	0938	. 0223	.0830	. 1623
		.3279	.2725 .2711 .2598	.0842 .0818 .1095	.0003	.0071 .0236 .1202		0989 0889			6566 7654 7872	2436	0985	0411 0230 0122	
			.2327	. 1522	.0651	. 1602		0714.	i -	6387	6839	4673		1,000.	
							i	.5193	.1303	.0375	7200	+026	0361	₩900°	
(1)	1.1508	.3847	. 2352	.1577	.0995	.2000	1	.5238	ij	. 7160.	6925	4313	.0154	0023	
α ₁ ≽:	.6523	. 7290	.7796	.82:0	.8790	.9210	.9600	. 9993	0180 1.	.0460					
1 9887	.1341 .1409 .3031 8357	.6991 5791 4305	. 0078 . 0291 - 1646		1437 1711 2750 3559	2039 1903 3506	0247 0775 1905		.3858	1225 0203					
	3160	2137		.6191 .6191 .8691 .3564				3856							

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	20)					RN/L		.3780	6860.	.1161	- 1481 - 1695 - 1595		2138	2093			
	(XE8850)					1050.0		.3010	.0486	. 0699	- 2034 - 2489		5609 .	5485 -			
						# Q.		.2510	.0326	.0151	1.5400 0.0400 0.0400		5646	6045			
				1.0460				.2040	.0543	. 0552 9.552 9.553	- 0610 - 1389 - 1389		8313	. 5917 -	1.0460	. 1292	
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(AMES 11-073-1	ORB			ე666 :		o		. 1660	.0793	.1:35	. 05:10 . 05:55 . 75:41	.5640	. 5661	.4591	. 9990	į	- 2963
3 (AMES	-140A/B/C/R		SLE CP	.9600	3353	01668.	LE CP	.1580						.6591	. 9600	0278 0959 1670 :950	2275 . 2411 2596 3322
1 - 0A148	11-073(04148) -		DEPENDENT VARIABLE	.9210	3825	MACH #	T VARIABL	.1120	r r	2002		· 数 :		九七.	.9210	1.1969 1.1969 1.3623 1.3623 1.3623	-,4054 -,2815 -,2540 -,1837
SURE DATA		. 236	DEPENDEN	.8790	2085	854 MA	DEPENDENT	0020.	.2250	0000. 0000. 0000.	1	.0238		.0304	.8793	1.1005 1.1005 1.2053 1.3053 1.3033	5719 3528 3091 0983
TED PRESSURE	AMES	#		.8210	.3415	-3.		3940.	3399	0000 0000 0000 0000 0000 0000 0000 0000 0000		3946		2770.	.8210	000000 000000 0000000 0000000000000000	.3337 .3337
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				DMES		-07310A148)	-140A/B/C/R	ORB	FUSELAGE			:XEB	:XE8850)		
ALPHA (5	,	11.999	BETA (2	• 6	. 180 M	MACH *	.89910	ø	• 55	559.28	۵	- 1059.	0 Z	RN/i.	3.5742
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8π/x	. 0000	.0080	. 0230	.0460	.0700	.1120	. 1586	. 1660	.1770	.2040	.2510	4510	3780	4970	5,740
# 88 888	1.1040	. 9299	. ,	+ 100	. 2315 0215	2551		.0783		.0547	. 0297	.0574	1011.	.1912	2.5.69
ວິດ. ເກັນ:			.5217 4374	.3315	. 1390 1390	. 1382		.0736		000.	0479	0016	.0887	. 1622	2479
		1. s.	.3699 .3767 .2399	1941	.0787 .0650 .0550	.0727 .0757 .1243		0202 0068 1384		1212 2109 3448	5144	1.2480 1.2430 1.4189	:857 1841 2942	0639 0639 1283	
(.1589	. 0843	.0173	8741.		, 4864	1627	4916	5958	E+6+-	:835	0423	
								.5169	•	-1.0044	6050	5221	173E	0043	
Ω Ω	1.1049	. 2452	.117	.0643	. 0282	. 1606	9719.	.4887		7819	6151	5323	1558	. 3698	
er : '	.6523	.7293	.7790	.8210	.8790	.9210	.9600	0666	1.0180	1.0460					
1Hd	,														
40.000 40.000 90.000	5.538 5.4589 1.4582 1.8481	.1759 5823	. 0941 . 1184 - 1304	0300 0061 0882	0979 1305 3177		0419 1068 2066		.4102 .2562	. 1317					
030.00 110.00 110.00			8483		- 4441	+9+0									
8 0 to 5 to	2057	2003	0183 .0146 .047	.0512 .2375 .3756	4403 4054 1056 1056	4736 3783 3486	- 3512 - 3050 - 3050	-,3056							
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भागक १५५	on ::	Б. В	E7A (3)	'n	.260 MA	MACH =	.89910	o	= 599.28		# Q.	1050	i Na		570
SECTION :	3118eC11		AGE		DEPENDENT	T VARIABLE	LE CP								
X/LB	2002	.2882	. 0230	.0450	.9700	.1120	. 1580	. 1660	0771.	.2040	510	.3010	.3780	0.4970	5740
	1.0902	75:6.	716h.		1759	101.		.0785		.0552	. 0229	.0475	.1019	1786	1515.
306			# # # # # # # # # # # # # # # # # # #		.0328	.0718	•	. 1039	• •	0515	. 1196	0694	.0405	1205	.2168
3 (J (J		. 2630		.0580 .0580 .0505	0158 0224 0280	. 3384 . 1342 . 1342	1 1	0768 0619 .0778	111		5926 7236 6732	- 2449 - 2140 - 3484	2202 - 2311 -	- : 258 - 3773 - 3551	

TABULA ED PRESSURE DATA - OA148 (AMES 11-073-1)

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REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

		.5740							
		.4970	. 0005	31.05	0164				
		.3780	2042	2105	2140				
		.3010	5138	5453	5474				
		.2510	. 5994	5966	-,6099				
		.2040	6140	954 :	6654	1.0460	. 1321	0055	
		0771.	.0733	.1083		1.0180	.4180	. 2432	
		. 1660	3942	.4839	9484.	. 9990			2907
	BLE CP	.1580			8069	.9600	0349	1190 3084 4983 5558	5790 4817 3848
	DEPENDENT VARIABLE CP	.1120	. 1248		.1526	.9210	2333	*.4171 4171 5555 5555	
4.260	DEPENDE	.0700	0143		.0137	.8790	-1019	3382 3382 1174 1183	5168 4202 3669 1721
**		.0460	5570.		.0807	.8210	0359 0359	1110 1125 1125	0407 .2144 .3449 .3299
BETA (3)	AGE	. 0230	.1316		· · · · · · · · · · · · · · · · · · ·	.7790	3889. 8889.	. 20% - 20% - 1003	0769 .0295 .0863 .0890
8 676.11	ER FUSEL	.0080			.2153	. 7230	. 1599	-,777.5	2886 15+4 1102
	11680(1	.0000			1.0332	.65.20	## ## ## ##	1.530	207 2 1478 1351
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TABULATED PRESSURE DATA - 0A148 (AMES 1:-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

PARAMETRIC DATA	RUDDER = -10.000 SPDBRK = 85.000 BDFLAP = 16.300 L-ELVN = 4.000 R-ELVN = 4.000 MACH = .600	592.57 P = 2387.9 RN/L = 4.8154		0478. 0494. 03010 .3010 .0497. 0497.	153712400958075906050724	200526481939165314121401	8+90. 0400 55:1-	-,1738 -,1658 -,0373 ,0369 ,0660 -,1424 -,1832 -,1669 ,0065 ,0396	-,1948 -,3551 -,3086 -,1010 -,033! -,3049	.257093352419125005520185	-1.18102334133107520383	.3180 1.0450	.21710183 .13120418				
		•		. 1560 .1	789	9 15 15 15 15 15 15 15 15 15 15 15 15 15	+3+ 381	.0107	.5633	й. 6.	3698	.1.0666.	vi⊶	Ş	14.08 14.7		
				1.	1789	3691 3691	1434	0107	ŭ	ì	, M				2747		
		. 59542	BLE CP	. 1580							.6991	.9600	0458 1038	1135 - 1547 2024	1920	1875	. X
	000 XX	MACH	T VARIA	.1120		3336 3336	1:90 .0863	. 1350	.34B;		. 2839	.9210	1465 1251	0485 0959 1428	1452	0351	\c i o : -
			DEPENDENT VARIABLE	0070.				. 3510 . 3510			.2915	.8790		0255 0633 1447		0.0729	
	1076.8 0.375.0	-7.854		.0463				3272			.3+20	.8210		1957	1900	u r	£60°.
⋖	XXXXX YXXX ZXXX III	BETA (1)	SE.	. 0230				. 62.1 1.13.			.4373	0677.		.1117 .1117 .1509	887.00 1000	. 2765 . 2765	. 1838
DAT	80 2.2.5 3.5 3	36 S7E	P FUSELA	0800.	.1372			ייר. נמייר.			.7065	.7250	255	0155 .0359	.0793	6160	.0525
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		ti b MHGTS	SECTION (di lik	: :				500 600 600 700 700	n n o c . c o c 		æ1/x	ខ្លួន	00000000000000000000000000000000000000) () () ()) ()) ()	4 / 3

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PAGE		•		.4970	0432	. 1885 1984 1984	.0193	72127	. ივგე				# #		Ω 7 6√.	3396	50 50 50 50 50 50 50 50 50 50 50 50 50 5
	320	9 RN/L		.3780	0575	.0313	0216	0304	0351				BN		3780	0521	0062 0111 0346
	(XEBB21)	= 2387.9		.3010	0793	0752 1988	6982	0.6940	0937				2387.9		.3010		0934 0699 2467
		0.		.2510	1108	1835 2170 2314	2712	2055	1971				•		.2510	1047	2205 2535 2835
		12.57		.2040	1323 1667 2656	1884 1884 2639	4059	9292	-1.1599	1.0460	0155 0489		592.57		.2040	1332	1.00 00 00 00 00 00 00 00 00 00 00 00 00
· -	FUSELAGE	* 592.		.1770			Š	1,61.	•	1.0.80	. 27.82 . 1.375		- 592		1770		
11-073-1	98 8	O		166º	1599 2004 2947	1082 1037 0780	.5027	.5584	.4677	. 9990	•	3384 2899	0		.:663	1578 1794	2036 1768 1917
B (AMES	-140A/B/C/R	5450 1.	BLE CP	. 1580				Ċ	tho.	.9500	0462 0819 1342 1734	2545 2020 1557 3285	. 59542	LE CP	.1580		
A - 0A148	-073(0A148)	MACH #	NT VARIABL	.1120	2400 2581	. 0075 . 0404 . 0404 . 2352	.3264		.3231	.9210	- 1493 - 1134 - 0849 - 1347	-, 2234 -, 1245 -, 0990 -, 0990	насн •	IT VARIABLE	.1120	2115 233	1649 0556 0556 1364
PRESSURE DATA	=	-3.844 P	DEPENDENT	.0700	2019 41 42. 1	. 0552 . 1254 . 2561	. 2256		.3137	.8730	1564 1699 0729 1224	255: 1679 1098	.189 M	DEPENDENT	.070		
	AMES	2) = -3		.0460	1816 1893 1881		, t 116		. 3844	.8210	1957 1952 .0975 .1313	6974 6974 6974 6974 6974	•		0940.	764	10000 10000 10000 10000
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		-3.959 E	ER FUSELAGE	. 0080	6121.	.607;			.7253	.7290	1234 0451 .0090		35.9 EE	FUSELA	64 (0) (0) (0)	- E-1 ·	£844.
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DATE 10 FE		ALPHA (1)	SECTION (X/LB	# . c. c. c.	12022		OCCUPATION +		(I) %:	Concoo Concoo I oceans a ribbi:) (5 0 0	tt.		(COCC) (COCC) (COCC) (COCC) (COCC)

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3760 -. 0232 1.2851 (a) (a) (b) XEB3513 .3010 2387.9 -. 0973 A. 0908 -. 0934 **%** -.2497 -. 1985 -. 1862 .2510 .2040 -.3514 -1.:250 -.0322 -.0780 -. 5284 1.0463 . 2040 592.57 AMES 11-073(DAIHB) -140A/B/C/P ORP FUSELAGE .1770 .0377 . 1095 1095 1.6180 TABULATED PRESSURE DATA - OAIH8 (AMES 11-073-;) . 166C .9390 .4121 . 52554 5147 . 1650 ø -.0482 -.0644 -.1572 -.1923 . 1590 .6789 .9600 -.3250 -.2566 .2090 -.3381 DEPENDENT VARIABLE CP . 5951-2 .1590 DEPENDENT VARIABLE CP . 1120 5775. . 9210 -.1501 -.1162 -.1198 -.1723 -.3104 -.1939 -.:819 .3361 .1120 MACH .0700 . 2833 . 3256 .8790 -. 1866 -. 3081 .0700 4.259 .0460 .3712 7.201**8** 2.0515 0516 7.0517 . 395¢ .8210 .2:11 .4457 .4969 .0460 m _ <u>;</u> . 3230 .4835 4017 1.1.588 1.1.588 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.00 1.0.000 1.0.00 1.000 1. .7790 .1443 .2362 .2515 .2515 .2573 . 0230 BETA SECTION (1) OPBITER FUSELAGE BETA (1:0PB:7ER FUSELAGE . 8380 -:::60 . 7293 -.0736 .7881 .0355 .1075 1200 .0030 -3.956 953 0000 -.0396 -.15:1 -.0357 -.0015 EC8311 . 2583 85:3. .0519 .0517 .0485 .0330 (1) WHATE A.PHA (:) SECTION W/L

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DEC. -.C617 -.... 古田市 0/5 ពីវី 3780 -.0360 -.5219 -.5785 -. 0558 3010 -. 5859 -. 1983 -. 2966 -.0821 -.767; -.1:07 .:227 **E** - 2555 90 -.1607 -.1686 -.211; -.2365 -.2370 -.2769 2882 -.2028 -.1991 -.1959 -.1410 -.1498 .2057 1.2286 1.2270 1.1646 1.1646 1.1224 1.1028 .2103 3337 .2938 1.0379

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	Š			3010					7925		3010	6972	355E	1038	1503	1.1441	1323		
				y.	1955	}			•		.2518	1263	.1106	- 25539 - 36313	.2739	.2-25	2308		
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X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

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AMES 11-073(04148) -140A/B/C/R OR9 FUSELAGE

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- 0A148 (AMES 11-073-1 TABULATED PRESSURE DATA

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

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5740 .5740 1345 . 1001 .4970 -.0739 .3847 -. 100% -.0816 E S .3780 -.1147 .3780 -.0857 -.0964 -.2267 .0510 .0729 -.1142 -. 0985 (XE8851) 2387.8 .3010 -. 1830 -.1229 -.1450 -.3622 .3013 .0200 .0553 -.2079 -.1771 85. 51. 51. 51. 51. -.3156 .2510 -.2114 .0108 -.0019 -.4790 -. 3341 . 2040 -1.7404 1.0460 .0187 -.0085 -.0134 -.0073 -.0821 -.1463 -.3283 -.4632 .2040 -1.4035 593.16 .1770 1.0180 . 2939 . 1942 .1770 -.0032 . 1660 .9990 -. 3235 -. 2850 .1701 -.0086 -.0054 -.0086 -.0314 -.0419 . 1650 3796 .3865 . 2665 Ø -.0155 -.0565 -.0818 -.1425 -.1806 -.2276 -.1837 -.3181 .9600 .59572 . 1580 DEPENDENT VARIABLE CP 5460 DEPENDENT VARIABLE CP .1120 -.0974 -.0138 -.0138 -.0791 -.1780 -.1653 -.1338 .92:0 .0621 .1120 .0151 .0688 .0817 .0864 .0807 .1031 0959 -3.859 MACH -.0785 -.0912 -.0954 -.0370 .0700 -. 2332 -. 2501 -. 2742 -. 0841 .0034 .8790 .0700 .0726 .0733 .1332 .1783 .1382 .1375 .03+8 1 1 1 1 1 1 .0460 -.0739 -.0523 .1391 .1982 .3684 .2839 -.3719 .0371 .8210 .1408 .1702 .723. .2655 .2356 .2108 .0480 .0930 .0764 BETA (2) -.0075 -.0516 -.0516 -.0038 . 0230 .0705 .7790 . 1635 . 1420 . 1557 . 1594 .0230 1769 .1097 BETA (1) ORBITER FUSELAGE SECTION / 170RBITER FUS : AGE .0080 5475. .7290 .0483 -.2314 -.1762 +. 0504 .0393 -.0279 .6970 29:5 8.061 8.970 .0861 .1035 -.2337 1.1483 1.1206 1.1081 .0000 **.991** .6520 -.3483 .0000 1.0165 .0:85 ALPHA (4) ALPHA (4) SECTION **PH1** 180.000 X/LB X/: 9

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DATE 10 FEB	75		TABULATED	a.	SSURE DAT	.A - 0A1	RESSURE DATA - 0A148 (AMES 11-073-1	11-073-	-					PAGE	181
				AMES	=	-073(0A148)	-140A/8/C/R	gg BB	FUSELAGE			(XEBBS1)	3513		
A'PHA C 4)	က် က	3.059 B	BETA (3		. 180										
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367			10501.	5460. C4840.	0335 0335	0209		0556		0936	0823	0228	.0161	. G458	.1112
58		ָ מַמָּ	1624 1624	.0173	18-20-	0617		1635		2594	2807	1782		1013	
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X/LE	.6520	.7250	5877.	.8210	.8793	.9210	.9630	.9390	1.0180	1.0460					
## 	7690°	£983.			0769	0927	0119		5972	.0278					
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	27.22	.0152	111 141	. 2593			28+0								

AMES 11-073(04148) -1404/8/C/R ORB FUSELAGE

57.40 TTT0. C938 2187 1603 .E196 -.0573 - 1579 - 153 - 1582 CTE-. 1882 7 -.1375 -.1076 -.0577 3780 .0397 -.0330 -.0739 1.5gtn -.0590 -.1370 -.480 3.93 .1517 (XE895:) 2387.8 -.1889 -.1754 -.2461 .3010 -.0859 .0027 -. 1537 -. 1531 .3010 -.1.54 -.:633 -.5590 - 185¥ .0619 .1315 . 5 5 5 -.1617 -.3055 -.3072 -.3668 -.0169 -.2973 -.332! -. 3204 -.:785 -.2222 -.43+6 . : 022 33.00 .0421 .2040 -.0281 -.0741 -.1550 -.2715 -.2997 -.3910 -.5088 -.6144 -1.2935 -i.5093 .0386 .0531 .0853 -.0141 -.924 -.1755 1.0460 2040 593.16 592.81 .1770 -.3482 .2937 .1316 1.0180 1770 -.0283 -.1222 -.2220 -.2165 -.2389 -.2389 . 1660 .9990 .0732 . 2260 2322 .0472 .0657 .1165 .0714 .0366 -.3591 -.318+ .1663 C a . 1580 . 59572 .9600 -.3594 -.3478 -.3394 .3892 -.0206 -.0511 -.1844 -.2336 -.2957 .1580 DEPENDENT VARIABLE CP .59550 DEPENDENT VAPIABLE CP .1120 -.0398 -.0846 -.1657 -.1234 -.1196 .9210 -.1040 -.0857 -.1811 -.2314 -.4223 -.3755 -.4189 .0534 -.0174 .:120 .0387 .1878 .1795 .1570 .1200 MACH RACH .0329 -.0054 -.1195 -.1195 -.1192 .0750 -.0823 -.1154 -.2139 -.2975 -.4353 - .5538 - .5092 - .4998 - .4138 -.009* .8793 .0700 .1516 .1768 .2673 .2828 .2092 .1999 8.284 -7.847 . 1218 . 0759 . 0215 - 0631 - 0916 - 0895 -.0985 -.0523 -.1017 -.1142 .0460 .1749 .3398 .1021 .0046 .0317 .8210 ŝ -.0801 .0402 .0774 .0475 .1145 . 0230 .1752 .1752 .0569 .0300 .0399 0460 .0864 .7793 . 3230 BETA I CHBITER FUSELAGE : OPB: TEP FUSELACE -.3410 -.2645 .0080 .6319 .1873 .7293 38+0. -.1+56 +:69:4 -. 6239 080**a** 1 37.4 2.63 8.063 1.093 1.093 1.003 . 9559 1877 T .6523 0 700 41.6 ă

TABULATED PRESSURE DATA - CAI48 (AMES 11-073-1)
DATE 10 FEB 76

(XE8851) AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE DEPENDENT VARIABLE CP BETA SECTION CINOPHITER FUSELAGE 12.032

PAGE

5740 0.784. -. 1585 -. 2057 -. 1338 ž 3780 -. 1586 <u> 198</u> -. 1261 .3010 ¥162 · -. 1830 -.2416 -.3272 93.00 -.6270 -.4146 -.4813 .2040 -1.5628 1.0460 -1.9631 592.HI .1770 1.0180 .0195 .3172 . 1660 .3716 .3417 . 1248 .9990 -.3078 -.2884 O .1580 14:47 .9600 . 59550 .1120 -.0624 -.0035 -.0099 -.0560 .0069 -.0004 .9210 -3.840 MACH .0700 -.2558 -.2902 -.3059 -.0579 -.0623 STT0.-.0460 -.0262 .0001 .0093 .1857 .1897 .8210 .5205 .1485 .0460 1.0544 .2621 BETA (2) .0230 .0123 .0530 .0414 .0532 .1790 -.0456 .0383 -.3069 -.2221 .1155 -. 2212 -. 0835 .7290 - 1049 = 12.023 .0000 .6520 6+6+--X/LB X/Le

5740 2113 :714 - 1234 - 1459 - 3856 CCE#. <u>...</u> .1487 - 1559 3780 . 1095 . 12:6 1.1837 .3019 .0780 1382. 3510 1370 . 2040 .1770 .00736 .0736 .07373 .0073 .0073 .00730 .00730 .00730 . 1660 . 1590 DEPENJENT VARIABLE CP .1120 .1058 .1515 .0878 .0370 03:8 .0700 24.00 26.00 1740.-.0230 1109BITER FUSELAGE .0080 .8123 th th 0000. 9+6. ALFILE : 53 10...535 White the contract of the cont 6 . x

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(XEBB51)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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		.3780	0833				1 RRV/L		.3780	.1116	.0827	1622 1584 2520	1044	0746	0696		
		.3010	1523				• 2388.1		.3010	.0810	.0379	2037 2082 3975	1947	1551	1435		
		.2510	2944				۵.		.2510	.0614	0188	2811 2971 4035	4380	3163	2881		
		.2040	-1.8257	1.0460	.0323		592.81		.2040	.0553	0145	2176 2978 4232	7978	-1.4452	-1.6299	1.0460	0342
		.1770		1.0180	.3144 .2004		± 59		.1770				1	1543		1.0130	.3189 .1838
		. 1660	.2106	. 9990	600	- 2808 - 2808	o		.1660	.0635	0374	1085 1216 0472	.2714	. 2945	.2517	.9990	
	BLE CP	.1580		.9600	.0138 0121 0997 1548	2112 2423 2077 2919	. 59550	BLE CP	.1580					c Q Y	1000	.9600	.0154 0175
	DEPENDENT VARIABLE	.1120	.0325	.9210	0583 0164 0618 1079 1632	2112 1997 1920 1399	MACH #	NT VARIABLE	.1120	0020	0948	0039 0039 0120	.0288		.0481	.9210	0554
3.840	DEPENDE	.0700	0405	.8790	0278 0467 0766 1020	2774 2594 1985 0300	H 171.	DEPENCENT	.0700	.1762	.1601	.0039 .0249 0476	0460		0317	.8790	0322
11		.0460	0199	.8210	0148 .0100 .0422 .1001	. 1540 . 1529 . 2459 . 3904	8		.0460	.2640	. 2525 2525 2525	4690 4690 4690	0011		0:60	.8210	0215
(S)		0230	0118	7790	.0625 .0910 1655 0853	0593 0787 0462 0614 1159	M	la.i	0530	2014	200	25.23. 25.23. 25.23.	3940		6100	7790	.0671
ETA	AGE	Ö	ï		99-09	9999	ETA	Õ	•	•	'. ·'. '	יויי ועי יי			٦	•	
023 BETA	ER FUSELAGE	0. 0600.	•	0857.	. 1218 	0839 0.1041 0.0207 .1	7 8£7	TP FUSELAGE	. 3080	.6182	'. **. '	5. 4575.	Ü		. 1073	. 7290	. 1231
= 12.023 BETA	(1) ORBITER FUSELAGE	•	i	•	.1218 .3535 .2431	. 1041	= 12.027 BETA	110PBITER FUSELAG	. 3350 .3080	182	' . ". '		J		, M	. 6520 . 7290	. 1550 . 1231 . 1821

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12.027

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

1.0180 1.0460 592.81 .9990 -.3349 .9600 -.1390 -.1855 -.2467 .2475 .2605 .2308 .2869 DEPENDENT VARIABLE CP -.1189 .9210 -.2666 -.2467 -.2398 -.2562 MACH -.3293 .3345 -.2967 -.1555 .8790 4.250 -.0154 .0123 .0602 .139*2* .2768 .4889 .8210 1+3+1 BETA (4) .7796 -.2074 -.1051 -.0123 BETA 110PBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.3908 .7290 -.1160 -.0702 -.0018 12.024 -.1486 -.0879 -.0825 .6520 -.5181 -.2185 ALPHA (5) PH1 76.000 90.000 110.000 125.000 135.000 150.000 155.000 SECTION 3./LB

Z 2388.1 DEPENDENT VARIABLE CP

.2040 .1770 .1660 .1580 .1120 .0700 .0460 .0230 .0090 .0000

.0607 .0294 -.0316 -.1845 -.1681 -.1707 .0696 .0169 .1173 .0725 .0679 .2523 .2302 .1676 .0414 .0027 .0150 3951 3654 3023 1809 1291 1091 . 7953 .1147 .9401

.0087 .0363 -. 0C.Jt -.0129 0610 .010. .0795 . 630 40.090 55.090 55.090 70.000 17.0.090 17.0.090 15.0.090 15.0.090 16.0.090 17.0.090 17.0.090 17.0.090

.8793 -.0471 .8210 -.0132 2977. .7293 -.4089 .1226 .6523 81/X ä

-.1686 -.0398 . 1958 -.:080

(XE8851)

.177

.5740

0764.

.3780

.3010

.2510

. 1625 1621

.1558 .0871

.1046

.0762 -.0331

.0564

0278

-.1036

-.1900 -.1512 -.1385

-. 1869 -. 1696 -. 1618

-.2357 -.2170 -.3272

-.3153 -.3148 -.3852

10+6

-.0644 -.0424 -.1716 -.2193

.2490

.4168

-1.3885

-.2991

-.0742

-.0832

-.0809

-. 1679

-.3765

-.1511 -1.7262

-.0691 -. 1537 -. 2932

-.0790

1.0460

1.0180

.9990 .2366

.9500

.9210

.0354 .3174 .1576

.0159 -.0226 -.1773 -.2175

(XE8851)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE TABULATED PRESSURE DATA - OA148 (AMES 11-073-1) DATE 10 FEB 76

ALPHA (5)	n	12.024 B	BETA (4	t = (t	4.250										
SECTION (1) OPBITER FUSELAGE	(1) OPB11	TER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460					
PH1 165.000 180.000	1927 1044	0245	1186	.3990	2649	3395	2669								
ALPHA (5)	= :?.	2.010 B	BETA (5)	a	8.307 M	MACH =	.59550	o	# 50	592.81	۵	- 2388.1	I RN/L	•	4.8267
SEC 10N		110PBITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	PLE CP								
X/LB	.0000	. 0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
PH1 .000	.882+	.7568	.3676	.2271	. 1374			.0458		.0322	.0436	9290	9	12	G121
			. 1669 1.	.0583	0160	.0365		0077		0352	4402.	1131	0310	0430	1343
		נו נו נו	. 00% 7.00%		1573	2256		2589		3212	E. Hind	2500		2157	
1400 1000 1000 1000			#.0070	100s	- 1467	1273		2317		3884 5115	3254	2659	1618	1498	
0.00 0.00 0.00 0.00			0286	0593	1107	0445		.0593	40 10 10 10 10 10 10 10 10 10 10 10 10 10	6402 8176	3416	1557	0655	0743	
								.1903	3677	-1.3424	29 <u>9</u>	1573	8060	1046	
1000.000	.892 <u>+</u>	.0113	0164	0383	0818	0051	. 3473	.1510	•	-1.7072	3248	1890	1270	1398	
97/X	.6523	.7290	0677.	.8210	.8793	.9210	.9600	.9990	1.0180	1.0460					
	(t.	.:205	. 058:	ເນ	0403	0682	6900.		2 170	0275					
	1.1.1.1 1.3.1.1 1.3.1.1.1	1, 4,000 1,3400 1,3400	. 2003 - 2008 - 2008 - 100:0		1 . 0 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 .		0306 1936 2148		1831	0642					
	ر د. بار	3. 6. 1.	α <u>(</u> ()	ı ır		222		3550							
	•601·-	. 069	1000 1000 1000 1000	3939	5341	3776		950c.							
	+ 10° (L) (1	1:05	511E.				3001								

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1) DATE 10 FEB 7E

.5740 -.0565 -.0610 55.000 -4.000 1.400 2.9139 05 AUG 75 .0230 .0158 -.0214 PAGE .4970 -.0586 -.0932 -.0563 -.0766 -.0gt2 R Z SPOBRK L-ELVN MACH -.0524 -.0897 -.1234 .3780 -. 1038 -. 1211 -.0345 -.1123 -.0810 PARAMETRIC DATA (XE8852) -.0.000 16.300 4.000 £39.8± -.0939 -.1373 .3010 -.1576 -.1635 -.0212 -. 1458 .2510 -.279+ -.1867 -.1664 -.1020 -.1728 -.0017 -.2870 -.2441 RUDDER BOFLAP BENFLAP ٥. -.0244 -.0652 -.1766 .0766 .1405 .0884 .1552 -.2436 .2040 -.1417 1.0460 600.46 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE 1.0180 . 1905 .8050 .8050 .1770 9890 -.0533 -.0554 -.0965 -.0965 -.1202 -.2307 -.2307 . 1660 1.0037 1.0626 1.0002 0 -.2591 -.3255 .1876 .1630 .0295 .0591 .1070 . 1580 .9600 1.0999 = 1.3963 DEPENDENT VARIABLE CP -.0731 -.0501 -.1086 -2215 -.2706 -.774 -.2070 -.1722 .1595 .0678 ..0513 .0775 .1953 .3079 .1120 .5610 .9210 5589 828 MACH 1076.6800 IN. Y .0000 IN. Z 375.0000 IN. 2 -.1603 -.1736 .1548 .1236 .0700 .0127 .0155 .0662 .3173 .3173 .3420 .8790 .0728 .1152 .1725 .4830 +804 .4852 -3.860 -.0919 -.1036 .2011 .1998 2879. 4229 4163 .0816 .0940 .1280 .3151 .4148 .4919 .8210 42.46 6449. .6091 .0460 = - 0386 - 0747 - 07488 - 0683 - 0683 2062 2618 4458 5979 6892 7540 8156 .7328 .0230 7953 .7790 XMSP YMPP ZMRP BETA SECTION 1 1) ORBITER FUSELAGE REFERENCE DATA . მზამ 2593.4090 SQ.FT. 47+.8030 IN. 926.0894 IN. .7290 -.0197 .0182 .0519 55+3. 6259 FI H .5790 1.0299 -4.053 1.4783 -.0193 -.0562 .0931 .0937 .0000 .6520 .0391 1.4789 ALPHA (1) SPER BREF X/CB X/LB Ŧ

-.0053 -.0131 -.0169

99		.9133	•	į		CAMP -	1.044														07.10		c i	0593	.0371	
TA SE			•	į			00.0	.0002 .0002	.0473	.0721	.6761	0756	3								0		000	0625 -	60705	0088
	_	FRV L	t	201	,	•		1265 1265	1	361	青	Call									2	-	יי נישני	·	1	
	(XE8852)	430.84			•	•	Ī	ii	·	7	7	1	•								đ			. ,	0512	1372
	0	1 th		2.02	,	1050) :	-, 1626	408	1806	1392	- 1050									48.954		3010	0113	0714	2225
		۵		0.80	£100	1153	•	2427	•	2954	2746	9839									•		.2510	0038	0730	2881
		10.4E		0400	0276	0441	.0337	0115	0687	- 199	1500	2876	1.0450		1764	Anca .					94.		. 2040	.0421	038 0782	
	ORB FUSELAGE	- 600		0771	•					.6578	•		1.0180		. 1826	scen.					- 600.46		0771.		•	•
		o		.1660	0533	0476 0552	1170.	. 2064 . 2064	4000	0666.	1.0355	1.0289	.9990				1236	. 1831			0		.1660	.0599	.0363	.0966
	-140A/B/C/R	1.3963	ABLE CP	.1580							i	1.0962	.9500		2586	. 1337			. 3087		1.3963	E CP	.1580	•	•	
	-075(0A14B)	MACH =	VARI	.1120	,	0460 0488	0440	. 1646 3846 3846	5100			.5619	.9210			.0178		.0213	1955			VARIABLE	.1120	2020	0472	.0551
:	=	.186 :4	DEPENDENT	.0700	.0180	0241	. 1588 2246	2373	2454			0064.	.8793			.1128			-17:- -2152-		268 MACH	DEPENDENT	.0700	.0212	. 0316	
Ĺ	AFILS	#		.0460	.0850	⊃ (c	7.504 7.004	. 3837	.5132	•		.6123	.8210		0916	. 1995 . 1995	7447	3908	.4173	. 5027	÷	u	. 3460	•	. 1609	
		BETA (2)	AGE	.0230	515. 512.	.3895	5817	.6450	.7483			.7405	.7793			.0071 .1559 .2810	3011	.3903	. 4095 . 4095	.4123	(A (3)	Ħ	. 0230		.3221	
		m	ER FUSELAGE	.0360	.6767			.8022				1.0154	. 729g		D#10	.0113 .0404	.0601	į	10+1	. 0305	BETA	FUSELAGE	.0983	.6585		.6503
			11GRB1TER	.0000	1.4783							1.4783	.6520	,		. 05319 . 0709	. 0405	ر. و	0 (0) (0) (0) (0) (0) (0) (0) (0) (0) (0		8+0.+-	1311E#311	0000	. 4643		
		A. PHA (11	SECTION (X/LB	T O	C 10	_	~~		151,039 162,238 165,238			m	ing	000 o	550.00 000.00 000.00	19.683 27.623	800 TE		3	ALCHA CITY	SECTION (617	ာ့ မေး ကြောင်း		

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DATE 19 FE	EB 75		TABULATED		PRESSURE DATA	TA - 0A148	_	AMES 11-073-1	. 1					₽¥¢£	780
				AMES	=	-073(04148)	-140A/B/C/R	ORB	FUSELAGE			(XE8852)	352)		}
1 3 ¥	; ; !	181 6+0	BETA (3)	t	. 268										
SECTION ((1309BIT	TEP FUSELAGE	AGE		DEPENDENT	INT VARIABLE	BLE CP								
₩B	. 2393	.0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	2040	150	2010	100	Ş	
PH1 140.000 150.000 151.000			₹989.	.5732	.4172	.4613		.8479	5485	1994 2100	2995	1749	1695	- 1194	0*/G.
80 to 1								. 9886	.6637	1633	3103	1278	1363	1081	
180.00	1.4643	.9953	.7390	.6167	¥88¥.	.5518	1.0426	1.0138	•	2579	2827	1473	-, 1209	n NoRis	
Х/ГВ	.6529	. 7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460		•			
70.00 70.00 70.00 20.00 105.00 110.00	######################################	6133	0423 0317 .0134 .1459 .2678		1587 1625 .0332 0541	- 2031 - 1678 - 0502 - 0461 - 0879	2583 2937 .0904 .0001	•	.1956	.0580					•
	.0257 0576 0119	. 6233	.2735 .3441 .3690 .3722	.3550 .3550 .3712	0622 .0337 .1255 .3507	1910 0555 .0181 .1135	2927 0993 0632 3413	1879 2306							
ALPHA (2)	•		[A (1)	# K	.878 MA	MACH =	1.3971	o	= 600.78		•	439.70	RN/L		ŧ
SECTION (110431758	R FUSELAGE	Н		DEPENDENT	T VARIABLE	LE CP							j	
۲/18 و و ا	0019.	. 6083	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	. 49 70	.5740
5560	5 di 3.	.8007	755	.1586 .1933 .2439	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	. 0009 0500		.0142	t 1		.0135	.0167	•	0265 -	- 0282
		gi Gi		1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	.3363 .3363 .3399	.2234 .2527 .3582		.2376 .3052 .5700			. 1594 - 1479 - 1137	.0538 .0739 .1543	.0215 .0470 .0946	044! 0298 0307 0689	.0216
			.5875	.5508	. 3592	.3821		. 9756	,	.1127	.3409	- 2445.		.0865	
138 138						****	1.0358	. 0880	.7762	- 1939 -	- 7702.	- 8022.	- 1522 -	6360.	

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(XEBB25)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

.5740 .5740 -. 0207 2.915t .4970 -.0928 -.0370 0.4970 -.0394 -.0377 -.0564 -.0164 -.06E7 -. 06e3 -.0693 PN F 3780 -. 1682 .3780 -.0033 -.1033 -.1427 -.1662 .0137 -.1608 -.1526 -. 1592 439.70 .3010 -. 1951 -.0309 .3010 .0319 -.1311 -.2127 -.3825 -.2408 -.2033 -.1615 .2510 -.3336 -.2092 -.2076 -.1946 .8510 .0057 .0190 -. 3455 -.3505 -.3203 -.2963 .2040 1.0460 . 2252 .2040 -.0077 -.0181 -.0247 .1004 .1263 .0546 .0678 -.0245 -. 3430 -.1988 1.0460 . 22.75 . 0892 500.78 .1770 1.0180 .2380 .1430 .1770 .6415 1.0183 . 1269 1269 0666. . 1660 -.1104 -.1846 .9561 -.0040 -.0321 .0038 .1032 .1668 .2290 . 1660 8915 1.0020 .9990 .9900 O .1580 -.2027 -.2⁻02 .1274 .0043 -.1324 -.0128 .0496 -.2574 .9600 .1580 DEPENDENT VARIAELE CP 1.3971 .9600 -.1997 1.0326 DEPENDENT VARIABLE CP -.1481 -.1006 .0396 -.0186 .1120 .3792 .9210 -.1104 -.0221 .1231 .2298 .1120 -. 1434 -. 1008 .0236 .0424 .0973 1442 1640 2974 .3848 3638 .9210 .0700 .3503 -.0976 -.1130 .0687 .0579 .8790 .0300 .0384 .0538 .4052 .0700 .0939 .0875 .1408 .2300 .2484 .2436 -. 0959 -. 0998 .3391 .3722 .8790 571. .0460 .8210 .5124 3394 3187 .0460 .1688 .2755 .2055 .2055 .3752 .3752 .3752 .5259 -.0270 5165 .8210 BETA (1) ິດ .0230 .6105 .7790 .2760 .3340 .3227 .3192 .313: 3349 55.94 5.279 5.279 6.553 6.519 . 0230 6229 .0130 .7790 6+91 SECTION 1 110RBITER FUSELAGE BETA 1:09BITER FUSELASE .0080 .9026 .7290 .0100 -.0648 .0056 5410. -.0145 .0000 .8012 6838 .0199 .7293 -.027 .0000 1.4840 -.0013 -.0079 -.0148 .0397 -.0279 -.0265 -.0364 .6520 .0000 -.0172 7.001**5** E00041.1 .5520 1.4859 4. PHA (2) SECTION (ALPHA . 2) PH1 180.000 X/LB Ţ メノトロ m Tix

n # •/ • (XE8852)

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1) ::

AMES 11-072(CA148) -140A/B/C/R ORB FUSELAGE

5740 -.0277 -.0301 4.019F -.0463 -.0468 -.0489 -.0620 .4970 -.0270 -. 0929 -. 0985 -. 0828 ZX Z -.1495 -.1707 -.1865 .3780 .0081 -. 9053 -. 1832 - 1994 -. 1681 439.70 -.1834 -.2710 -.4491 .3010 -.2072 -. 1643 -.0183 .0261 -.2404 -.2532 -.2678 -.2664 .2510 .0018 -. 0022 -.3361 -.3517 -.3611 ۵. .2040 -.0135 -.0208 -.0189 .0633 -.0279 -.0312 -.1926 -.2426 -.2105 -.3140 .9990 1.0180 1.0460 1.0460 .0907 **500.78** .1770 .5357 1.0180 . 2438 . 1299 -.0177 -.0106 -.0021 .0555 .1073 .1544 -.1887 -.2379 . 1660 . 9990 8213 .9757 9491 -.2139 -.07:3 -.0256 -.3018 .0592 -.0393 -.1367 .9600 -.3190 -.1398 -.1070 # 4.247 MACH # 1.3971 . 1583 .97.55 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0093 -.0488 -.1172 -.1456 -.0315 .0546 .1334 .1120 - 1413 - 1386 - 0554 - 0954 - 1665 .9210 0222 0433 0433 0703 0807 2210 .9210 -,2139 -,0993 -,0265 .3060 .3705 .0240 -.0180 -.1200 .0066 .0802 .1171 .3388 . 3700 .0988 .0712 .1046 .1549 .1581 .8790 -.0957 -.0961 .0018 -.0573 -.0718 .0035 .0860 .3738 3678. .8210 .0733 .1019 .1302 .3402 .3565 .4306 .0460 .1548 .1557 .1689 .2139 .2309 .2363 DE84. .5199 .821C . 2555. 75957. ົດ -. C15 BETA (3) -.12C2 .0213 .1630 .2689 .3007 .315; .0230 .7790 328+ 12260 14028 14028 14018 15255 15253 .0212 .0212 .0388 .0388 .6187 790 8888. 8888. 8738. BETA (5921 SECTION : 1:09817EP FUSELAGE SECTION OF LORBITER FUSELAGE .7290 .0076 -, 0934 -, 0391 .0190 .0080 . 0243 .7878 .0175 .6227 . 8555 32.49 72927 -.013 .6523 1.000 F 0000. U. C. 140 55.-.: u.::. . 633g ALPHA C 23 10 × × 10 € ts 10 X

FUSELAGE	
ORB	
-140A/B/C/R	
11-073(0A14B)	
AMES	

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BETA (3) =

-.015

ALPHA (2) =

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			2.9092		.5740	.0183	.0332														
			RN/L - 2		0.4970	.0234	1	•	08+1	082 1450		1184	0926	0770							
			Æ		.3780	.0511	7440		0388	0891		1851	1837	1983							
			+39.71		.3010	.0399	0150			3132		- 3238 .	2737	2387							
			<u>.</u>		.2510	.0401	0597	•	1318	1259		3895	3565	3791							
	1.0460		600.16		.2040	.0337	. 0214 0226	1773	.2151	. 1945	.1103	1226	2430	3442	1.0460	.3014	. 1549				
1.0180				0771.							3707.	96.		1.0180	.3317	. 2271					
	J666 ·		o		. 1660	.0473	. 0621 899	9999. 1.948. 1.948. 1.99. 1.99. 1.99. 1.99. 1.99. 1.99. 1.99.								. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.					
LE CP	.9600	3441	1.3964	RE CP	.1580									.9512	.9600	1437	1783	1130 1709	2143	0233	2554
IT VARIA	.9210	. 0625	3.886 MACH =	IT VARIABLE	.1120		.0782	2090	. 2326	.3021		. 2983		.2744	.9210	CB45	0585	0897 1958	1576	. 0482 . 0482	3 / I
DEPENDENT VARIABLE	.8790	.2506		DEPENDENT	.0700	.1684	. 1774 0774	3512	5475.	. 3359 3349				.2586	.8790					0526	
	.8210	.3214	1		.0460	.267!	. 2929 3517	4350	17.	.4536	· !	44.66		6414.	.8210			.0552 .1163		2369	.2718
110RBITER FUSELAGE	.7790	.3071	BETA (1)	ų	.0230	.4378	. 4843 1070	. 0 10 10 10 10	. 7025	.7042		5735		TT84.	D977.	. 2655	•	ក្រហូ ភូមិ ភូមិ ភូមិ ភូមិ ភូមិ ភូមិ ភូមិ ភូម	.2001	. 2237	. 2255 2555 2555 2555 2555 2555 2555 255
	.729	.02:3		R FUSELAGE	.0383	.9209				.8791				.7549	. 7290	.0478	0	9	1027	5011	. 3524
	.6520	0188 0273	3.910	110RBITER	. 0000	1.4698								1.4638	.6520	ຫຼື ຫຼື ວ ີ	1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (* m ? (0 ? (0 ? (0	6+53*-	gn (0880
SECTION (X/LB	PHI 165.000 193.000	2, Ph. (3)	SECTION (en .i ×	PH1 CC3.							ក្រាក់ ភពព ភពព ភពព ភពព ភពព		XILB		 	1	1111	7 (7 () 3 () () 3 () () 3 () ()	20 20 20 80

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TABULATED PRESSURE DATA - OAIWB (AMES 11-073-1) D4-1

920 .0187 2.9092 5740 0158 . OD 26 0764. -.1057 -.0887 -.1009 -. C67E -.0565 -.0563 -.1135 -.0963 -.07-. 22. -.83 .3780 -.0973 -.1435 -.1981 .0549 .0464 -.1709 -.1858 -. 1884 -. 1472 -. 1872 -. 1686 .3780 .0627 .0462 (XEBB25) 439.71 -.1006 -.1702 -.3619 .3010 .0403 .0532 -.2873 -.2507 -.2101 -.1514 -.2239 -.4:83 .3010 .0439 .0324 -.1749 -.1843 -.1902 .2510 .0277 .0692 -.3928 -.3583 -.3928 +.2158 -.2346 -.2533 .25:3 .0645 .0251 o. .0374 .0253 .0133 .1169 .1547 .1110 .0841 . R+03 -.3805 1.0450 .0313 .0559 .0559 .1079 .0345 .2040 600.15 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .1770 .6219 .6898 1.0180 .3312 .1770 . 1660 .0492 .0494 .0768 .1195 .1265 .2063 5749. 9990 9351 .1660 0591 0591 0558 0658 0658 0658 1552 1552 1552 1.3964 -.1420 -.1576 -.0124 -.1368 -.2532 -.1169 -.0757 -.2639 .943t 9500 DEPENDENT VARIABLE CP DEPENCENT VARIABLE OF .1120 .0855 .1095 .1414 .1566 .1532 .2412 - 180. - .9210 2827 2951 2951 2753 2751 6750 .1768 .1671 .2:95 .2685 .2556 .2556 .2733. 2749 .8790 8 E SUMMUMM THE MATERIAL COLOR TO COLOR 4.235 .0460 8210 .0383 .0407 .0316 .0357 .0357 1817. retumen darite .0230 14400 15108 15108 15973 15973 15927 15927 1598 1598 1598 1598 .5377 4929 .7790 0 6 0 1 ្រែកាស្ត្រជាក្រ ឯពេទ្ធប្រកា ឯពេទ្ធប្រកា BETA 1:OPBITER FUSELAGE Caalifa FussuadE .0083 . 9242 .7365 -.1772 .7297. .3514 .3359 .0353 -. 0461 3.9.2 . 9000 ロナノオ・コ .0553 .0517 .0503 .0197 .6523 -. 0224 .01.11.11 1 0

	(YEDDE)			Î	.3780	2037	, age	}			PN/t		3780	
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				0400	1578	2547	3621	1.0460	. 3082 . 1594				.2043	
- -	11-073(0A148) -140A/B/C/R ORB FUSELAGE			0771	52.6	.6110		1.0180	.3467		= 599.65		.1770	
11-073-	C/R ORB			. 1660	.7939	.9017	.5337	9990		2982 3735	σ		.1650	971
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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1	5 11-073	ú	DEPENDE	.0700	.2234		. 2773	.8790	- 0254 - 0254 - 0583 - 1545 - 6583	1.1 0.00 0.00 0.00 0.00 0.00 0.00 0.00	975 MACH	DEFENCENT VARIABLE	. פסרפ	.2583
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5740 . 3952 3784. .083--.1050 -.1265 -.2850 -. 389 .0965 -. 0263 -. 0004 -. 3380 .1084 -.2193 -.2028 .0265 -.0534 -.3139 -.3819 -. 3214 -.1024 -.1085 -.1161 . 1296 -.4339 -. 3998 . 0911 . 0944 . 1431 . 2107 . 2259 . 1835 -.2861 .6860 .7268 .1311 .1311 .1752 .1953 .1991 .5163 8560 . 1622 . 2169 . 2430 . 2634 . 2330 32.73 32.73 32.73 32.73 4.05 5.05 TO TUTTON OF THE CONTROL OF THE CONT .4515

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1) BETA 7.922

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(XE8852)

5740 2.9107 565 -.0587 Z 3780 -.2153 439.2t .3010 -.2709 .0350 -.4105 -.3776 .2040 1.0460 .3835 599.65 .1770 1.0180 .4339 . 1660 . 9990 .8703 1.0041 ø . 1580 .9600 -.2405 -.0902 1.3965 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 .9210 -.0102 -.0393 -.1283 -.1832 -.2580 -.1920 -.1338 .0002 .1371 . 1936 .169 MACH .0700 .0223 .0223 .1320 .1291 .1857 .8790 .0460 .3195 .8210 0994 2351 0295 0295 .0719 .1276 .1208 3:27 .0808 .0669 .0571 .0571 .0230 .1338 .1510 -.2764 -.2334 3705 .7790 SECTION (1) CARITER FUSELAGE .0380 -. 2343 -. 1964 .6272 .1179 .7290 -.1735 -.0212 -. 0229 7.930 . 8333 -.0848 -.0586 -.0473 1.4379 .6520 -. 1832 PHI 190.538 87/2 X/LB

5740 2885 .0803 .4970 .0585 -.0528 .0864 -.0745 -. 0459 .3780 .1085 -.0887 -.1364 -.3308 .1009 -.2055 - . 1844 -. 1970 .3010 £10. -. 1232 400 -. W16 -.2506 -. PSIST. --.1439 <u>8</u> .0790 .1031 -.43.4 -.3997 -.4285 .2040 .0944 .0825 .0657 .0785 .1500 .1535 .1555 .1756 .2085 .4152 -.2816 1.0450 . 173 6125 1.0180 . 1660 1204 1204 1794 1796 1796 1796 1796 1796 1796 **797** .9990 4,687 8834 . 1580 8440 .9600 .1120 1684 1791 1508 1598 1412 .9210 2002 .199⁴ .0700 1179. 2599. 1989. 1985. 1989. 2005. 2719. . 1998 . 1882 .0460 3775 3824 3826 3826 3870 5570 3349 82:0 3313 . 0230 55.53 1,03 19 SECTION (1) ORBITER FUSELAGE . 0080 1.0437 63.63. 6113 7230 1.4428 .6520 8244.1 THE PROPERTY X/1.9

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BETA (2) =

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AMES 11-073(0A148) -140A/B/C/R CRB FUSELAGE

				2.9107		.5740	.0764	.080.							
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	1.0460			599.65		.2040	.0879	.0335	. 1001 . 1001 . 0798 . 0260	- 0880 2772	2937	4026	1.0460	. 2281	
	1.0180			• 599		0771.				141	. 5869 . 5869		1.0180	. 2921 . 2921	
	ა66.	2002	. 3336	o		.1660	9601.	1900. 1900.	.0803. .08693. .08693.	.7409	4748.	.8929	0666.	7	.3971
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IT VARIABLE	.9210	1543 2113 2982	2082 1240 0573 .0196	MACH	IT VARIABLE	.1120		1141.	. 09483 . 0693 . 1448	.1603		. 1855	.9210	0388 0224 1641 2681	2720 1695 1262
DEPENDENT	.8790	1536 1912 2241	1.0817 1.0826 1.0826 1.0826 1.0826 1.0826	4.235 MA	DEFENDENT	.0700	.2690	. 2557 . 2463	. 1553 1553 1571	.1476		8761.	.8733	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1264 0714 0447
	.8210	1022 0143 .0501	. 1415 . 3587 . 4138	•		05+0.	.3902	340 P	uninin Parana Wendari Wendari	3:75		.3393	.8210	1.1311 1.0033 0.0038	. 80328 . 80338 . 80338
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AMES 11-073:041481 -1404/B/C/F ORB FUSELAGE

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(XE8952) 1.0180 1.0460 ე666: .3377 DEPENDENT VARIABLE CP .9210 -.0626 .8790 1981 .8210 .3122 m .7790 .1117 BETA SECTICA (1) URBLITER FUSELAGE - 0138 7.931 -.0326 -.0468 ALFHA . 43 ALPHA (51 PH1 165.000 180.000 X/LB

.1483 2.9166 0.4970 -.0980 -.1337 -.4938 . 1443 1481 -. 1612 SE SE -.0146 -.0659 -.4303 .3780 .1452 .1766 -. 2586 440.65 .3010 .1185 . 1808 -. C059 -. 0337 -. 2982 -.4260 .1746 -.0701 -.0967 -.1195 .850 1451 -.4695 σ .1636 .1553 .1553 .1581 .1322 .2293 .1878 600.34 0771. .1836 .2033 .2481 .2674 .1942 .1860 . 1660 9818 O 1.3951 . 1580 DEPENDENT VARIABLE CP .1120 .2500 .2952 .2495 .2406 .1996 .1680 . 1340 MACH .0700 .3556 .3613 .477+ .2175 .2999 .5175 1438 -3.866 . 1880 . 5180 . 5180 . 5180 . 4592 . 4157 .0460 BETA (1) .0230 .6729 .7167 .7909 .7490 .6823 .6238 SECTION (11CPB: TER FUSELAGE .0083 1.1509 .7732 ± 1:.853 .0333 1.3899

9+0+.--.3300 1.0460 .4502 1.0180 3799 .8616 .9933 .7952 -. 253: -. 253: .6802 .9600 .1217 .0781 .0764 -.0269 -.1743 .9210 . 1873 - 1178 - 1841 - 1925 .1142 .8793 .2281 . 2863 - 2863 - 2863 - 2863 - 2563 .8210 弘 .7793 .4825 .7293 .≳308 - 24433 - 24433 - 24433 2222 .6523 i.3899 E081 ā

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799				.5740							.9102		.5740	.2347	.2548			
PAGE				.4970	0639	0532	0743						0.64.	. 2269	. 2305	1015 1289 4225	3184	1196
	25			.3780	1737	1961	2049				RN/L		.3780	.2116	5745.	0067 5097	3101	· +5-70.
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AMES 11-073-1	ORB B			. 1660	.5667	. 7639	.8224	0666.	į	4590 4590	o		. 1660	.2701	3125	. 1592 . 1592 . 2984	.7896	.8252
_	-140A/B/C/R		LE CP	. 1580			.6775	.9600	.0013 0557 1659 203	4193 2167 2129 3501	1.3947	E CP	. 1580					.5989
- 0A14B	-073(UA148) -		T VARIABLE	.1120	.1041		.1178	.9210	.0810 .0358 2920 3032	2994 1728 1402 0860	# 5	T VARIABLE	.1120	ç	. 3903 . 3903 . 3903	. 1637 . 1637 . 1854	.0556	
URE DATA	=	.24B	DEPENDENT	.0700	. 0945		.1318	.8790	. 1298 . 1206 - 2368 - 3950	1668 1105 0397 2184	.845 MACH	DEFFENDENT	.0700	.4687	0000 0000 1	. 1887 1887 1880 1880	.0636	
ED PRESSURE	AMES	#		.0460	.2277		.2515	.8210	.1961 -2174 -2155 -1415	1339 .1453 .2877	-3.	_	. 0460	.5979	. 64.31 84.31		.1124	
TABULATED		BETA (3)	F)	.0230	. 2929		.2600	.7790	.2340 .2604 3918 2552	.0148 0179 0459	BETA (1)	F.	.0230	.7964			. 24.93	
			R FUSELAGE	.0080			. t 369	. 7290	.2138 3389 2254	0951		R FUSELAGE	. 0080	1.2433		t;		
76		11.855	1) ORBITER	.0000			1.3821	.6520	.1624 .1754 .2207	0712 0433 0372 0518	= 15.826	1 1 CHAILTER	. 0000	1.3163				
DATE 10 FEB		ALPHA (5)	SECTION (X/LB	PHI 140.000 150.000	162.000 165.000 169.000	174.000	X/LB		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALPHA (6)	S CTION C	81×		יים ביים מיים ביים)))))))	10000 10000 10000 10000 10000 10000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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		.4970	0698				٠		.4970	. 229	.2065	1923 1919 3190	1064	0661	85£		
		.3780	1926				PN/L		.3780	.2178	.2070	0833 1142 5222	2430	1862	1723		
		.3010	3058				441.12		.3010	. 1956	.1766	0758 0779 3317	-, 4445	3355	2821		
		.2510	- +573				.		.2510	.2123	.1577	1115	4938	4523	4781		
		.2040	4359	1.0460	.5101 .3402		600.64		.2040	. 2446 0000	1555	. 1478 . 157 . 1157	. 1579	-, 3493	4620	1.0460	.5077
		.1770		1.0180	.4681		909 #		1770				.5550	.6117		1.0180	.6346
		. 1660	.7290	0666.		3262 3262	o		.1660	.2734 8734		. 1034 . 1034 . 3212	.5374	.7368	. 7643	0666.	
	BLE CP	.1580		.9600	.0056 .0056 1480 1671	2704 2070 2917 3490	1.3947	RE CP	.1580					į.	1	.9600	.0609
	DEPENDENT VARIABLE	.1120	0654	9210	.1571 .1086 3509 3456	2720 1779 2675 0498	ti	VARIABLE	.1120	יו ת	3162	1493 0460 05682	368¥		69	9210	.1631
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.845	DEPENDE	. 00700.). 2720.	3. 0678.	. 2398 . 1 . 4279 3 . 2526 3	18562 19641 35502	165 MACH	DEPENDENT V	. 0070.			. 1901 . 0638 . 0638	c. e830.		.0711	. 8790	
3 = -3.845	DEPENDE		•	•			÷ .165			.4738	84174. 84174.		589		•	. 8210 .8790	.3188 .2496 .3299 .347
= ::		460 .0700	. 6750. 414	. 8790	76 .2398 77221 774279 8562526 8182039	35.11856 35.11964 3435.50 .1599	A (2) = .165	DEPENDENT	0460 .0700	32 .6019 .4738 55 .5955	73 . 1885 4188. 77	. 1301 . 1301 . 0638	. 9850· 38E		. 1170. 88	82:3	. 2495
BETA (1) =		.0460 .0700	. 1414	. 9210 .8790	3553 .3046 .2398 3640 .3176 .2211 515245774279 368318562526 232033182639	1050 1075 - 1856 1478 6251 - 1964 1855 1434 - 3550 2062 . 1834 - 3559 2062 . 2609	1 BETA (2) = .165	FUSEL AGE DEPENDENT	230 .0460 .0700	32 .6019 .4738 55 .5955	73 . 1885 4188. 77	73 .3349 .3329 55 .2738 .1901 51 .1745 .0638	. 1350. 0589		. 1170. 2991. 1	.8210	9 .3188 .2496 1 .3299 .23+7
= ::	(1) ORBITER FUSELAGE DEPENDE!	.0230 .0460 .0700	. 1564 . 1414 . 0575	. 0678. 0158. 0677. 065	.301 .3553 .3046 .2398 .3640 .3176 .2211 .4322 .51524577 .4279 .3048368318562526	.1934 - 1050 .1075 - 1856 .3191 - 1865 .1434 - 3650 .3191 - 1862 .1434 - 3650 .2962 .1599	A (2) = .165	DEPENDENT	080 .0230 .0460 .0700	. 2542 . 2032 . 5435 . 9025 . 3965	73 . 1885 4188. 77	.5373 .3349 .2329 .50 .4755 .8798 .1901 .750 .1745 .0638	. 1350. 0589		. 1641 . 1665 . 0711	092. 062.0	3.357; 3.359 3.475 3.357; 3.259

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE TABULATED PRESSURE DATA - OAIWB (AMES 11-073-1) BETA 15.841 DATE 10 FEB 76 ALPHA (6)

1109BITER FUSELAGE

SECTION (

1.0460 1.0180 ეგგნ. .9500 DEPENDENT VARIABLE CP -.3311 -.3333 -.4195 -.2417 -.1732 -.2362 -.0702 .9210 -.4906 -.3581 -.3919 -.1876 -.1121 -.2847 -.2439 .8790 -.4592 -.2485 -.0741 -.0083 .0056 .2562 .8210 -.5448 -.3985 -.2834 -.0834 .0039 -.1885 -.1075 .7790 -.4842 -.3283 .7290 -.1602 -. 1804 -.0508 .6530 -.3399 -.1177

600.64 1.3947 4.274 MACH = .2980 BETA (3) 15.833

.3010 .2510 .2040 .1770 . 1660 DEPENDENT VARIABLE CP .0460 .0230 SECTION (1) ORBITER FUSELAGE .0080 0000. ALPHA (6) X/LB

. 1580 .1120 .2999 .2405 .0232 .0687 .0314 .0700 1.2431

.5740

.4970

.3780

2.9102

.2283 2007

.2167 .1711

. 1950 . 1204

.2096

.0712

.1725 .2221

-.2878 -.2445 -.205+

-.1518 -.1735 -.4941

-. 1275 -. 1324 -. 3683

-.1429

.2369 .2369 .1687 .0018 .0331 .0444

-.0751

-. 1841

-.3886

-.4926

-.0511

-.1764

-.2915

-.4581

-.3507

.7068

.5966

.0572 .9210

.4718 .5407

.6013

-. 1995

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-.4493

-.4557

1.0460

1.0180

0666 .7587

.9600

.8790

.5046

.6352

.1580 .1015 .3348 .3637

.0536 .4558 .4118 .3597 .2034 .1471 .1471 .0582 .5984 .5547 .4942 .3053 .2301 .1917 .7591 .5591 .5035 .4176 .3917 -2109 -

.0802 .1365 -1<u>0</u>-1 .1621 2718 1.3184 20.000 40.000 70.000 90.000 120.000 140.000 150.000 151.000 162.000 163.000 163.000

.2344 .2283 .4754 .3951 .5009 .8210 .7796 .7290 .3082 . 5523 X/LB

.2959 .3096 .4323 .2672 .3370 .3632 .5059 .40:3 -.4533 -. 1333 -.1335

(XE8852)

1.3164

-.1735 -.1791 -.0234

-.4241

-.3816 -.2902 -.2137

-.0337 -.0833

-. 3913

TABULATED PRESSURE DATA - 04148 (AMES 11-073-1)

DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

BETA (3) = ALPHA (6) = 15.833

DEPENDENT VARIABLE CP SECTION (1) OPRITER FUSELAGE .9990 1.0180 1.0460 .9600 .9210 .3790 .8210 0677. .7290 .6520 X/LB

.2796 -.0765 -.3736 . 2590 -.0572 -.0867 -.0730 -.1031 -.1026 PH1 165.000 180.000

(XE8852)

PAGE 803	(XE8853) (05 AUG 75)	ETRIC DATA	000 SPDBRK = 55.000 300 L-ELVN = -4.000 000 MACH = 1.250	551.79 RN/! # 3.0068		0.3780 .3780 .3740	08961147	6111614661258	010970058 213050058 616750530	1672	U18121142	ctz1:- 1102:- 0						
	u	PARAMETRIC	# # # #	# 500		2510 .3010	·	88 1856	1721540 1852572 1574286		872420	721930						
			RUDDER BOFLAP R-ELVN	597.22 P		35. 0405.	i i	1189 24662388 - 6000	0009 .06102872 .00572585 .07021857		27083087	STTE - 8TTE-		.1245	. 0592			
-1 -	-140A/B/C/R ORB FUSELAGE			= 597		.1770					. 7069	•	1.0180	.1615	0155			
(AMES 11-073-1	1/C/R 0RB			ø		. 1660	0797	1430	.1723 .2270 .4904	.9225	.9751	.9038	0666.			1923		
				1.2435	ABLE CP	.1580						1.0459	.9600	3352	. 1264 . 1264 . 0977	1043	0152 .0155) : ! ! ! !
ATA - 0A148	11-073(0A14B)		7. X0 7. X0 7. X0	MACH =	ENT VARIABLE	.1120			. 3009 . 3009 . 5094	.5845		.5852	.9210	2884			.1048	:
ESSURE DA	MES 11-07		'6.6800 IN. .0000 IN. '5.0000 IN.	.3.860	DEPENDENT	0070.			3081	.5131		.5015	.8790	2352	.0932 .0932 .0593 .0157	0381	11.03	
TABULATED PRESSURE DATA	র্ম		# # 10 70 34			0940.	3 .0617			.6341		. 5967	.8210	1630			# # 200 200 200 200 200	
TABU		DATA	YMRP YMRP ZMRP	BETA	ELAGE	0 .0230		. 5756	.6793 5247. 1	7997.		7407	0677.		- 1310 - 1310 - 1543 - 1555		1996	C (()
		REFERENCE DATA	00 SO.FT 00 IN. 80 IN.	-4.036	1) OPBITER FUSELAGE	0800 · 0	. 6364		.9321			1.0174	. 7290	0780	7.0834 0285	. 0063	.0059	
FEP 76		G.	2690.0000 474.8000 936.0580	1 = 1		. 0000	1.4202					1.4202	.6520		.0369	₹ 300°-	0392	
CATE 10			SPEF = LPEF = BREF = SCALE =	ALPHA (SECTION (X-LB	₽41 - 753 - 753 - 753	#0.03 0 55.00	70.000 93.000 170.000	156.000	158 JOB 168 COB 169 COB	180.000	X/LB	PHI .000 #G.000	70.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	700 700 700 700 700 700 700	1616	į

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.5740 - 1225 -.0898 -.0441 -.0452 -.0973 4970 -.1336 -. 121 1 -.0885 -. 0986 -.1781 -.1672 -.3036 .3780 -.2809 .3010 -. 1353 -.0624 .2513 -.4091 -.4221 -.3645 -.0423 -.1131 -.0375 -.0423 -.1072 -.0885 -.0790 -.2079 .2040 .1770 -.0632 -.0519 -.0613 -.0069 .0442 .0579 . 1660 .1580 DEPENDENT VARIABLE CP .1120 .0700 .0390 .0040 .0234 .0915 .1409 .0460 0558 0558 0578 1484 2502 2503 2503 4314 2114 21159 3113 4712 5318 6662 .0230 THERETER FUSELAGE 0600. .6365 .6541 1.4387 i.

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TABULATED PRESSURE DATA - OA148 (/MES 11-073-1)

57.0 693 PAGE .4970 - 1457 -. 1480 - 1585 3780 -. 135E -.2160 -. 1909 (XE8853) .3010 -.2184 -. 1885 - 1985 .2510 -.4102 -.4273 -.3696 -.3363 -.2930 .2040 -. 3882 1.0460 -. 0050 AMES 11-073(0A148) -140,/B/C/R ORB FUSELAGE .1770 .4521 1.0180 . 1561 .1660 7672 9990 .9027 .9277 -.2721 -.2749 . 15 90 .9600 -.37.35 -.35.14 -.02.18 -.02.18 -.2638 -.1717 -.1531 -.4635 .9631 DEPENDENT VARIABLE (P .1120 .5839 .9210 .4928 -.2413 -.2413 -.0774 -.1282 -.2638 -.1356 -.0831 .0700 .4380 .5217 -.2366 -.2363 .0637 -.0099 -.1685 -.0578 .0472 .8790 .0460 .5756 -.1601 -.1435 .2614 .2186 .1524 . 6248 .8210 -. 0220 .3695 .3657 .4518 BETA (3) . 0230 .6950 -.1014 -.0915 .0302 .1798 . 7544 .7790 .3499 .3798 .3798 .3821 SECTION (1) ORBITER FUSELAGE .0080 .9920 -.0710 .7290 -.0704 .0701 .0608 .0220 -4.033 .0000 -.0841 -.0699 -.0095 .6520 1.4087 -.0557 -.0637 -.0561 -.0038 ALPHA (1) PH1 140.000 150.000 151.000 162.000 165.000 169.000 174.000 .000 70.000 90.000 105.000 110.000 135.000 150.000 165.000 A/LB

57.50 -.0580 -. 85y 0.797. -.0506 -.0527 -.1009 -.0699 -.1306 Z .3780 -.1071 -.1474 -.1853 -.0586 -.1917 -.0537 552.0 .3010 -.1175 -.2094 -.4070 -.0291 -.1147 -.3001 .2510 -.0212 -.2572 -.2331 -.1817 -.1131 -.4528 .2040 -.0309 -.0646 -.1018 .0799 .1176 .0705 .0759 599.32 0771. 6733 . 1660 -.0390 -.0243 -.0130 .1454 .2131 .2682 .5049 8970 ø .1530 杰克. DEPENDENT VARIABLE C> BETA (1) = -3.891 MACH = .1120 -.0011 .0521 .1645 .2400 .2930 .4g43 .0700 .0898 .0749 .1419 .2837 .3238 .3384 .3799 .1938 .1893 .2478 .3839 .4361 .4774 .0460 5236 .0230 3636 3636 5295 6461 7004 7311 6989 SECTION (1) ORBITER FUSELAGE .0080 . 785¥ .9126 -.011 .0000 1.4228 ALPHA (2) 20.000 55.000 70.000 90.000 120.000 150.000 151.000 165.000 165.000 Ĭ X/LB

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AMES 11-073(0A148) -140//B/C/R ORB FUSELAGE

		.5740					3.0119		5740	0786	0637						
		0.6970	1266				•		0.4970	0836	1079	0915 0783	.1091	1001	0951		
		.3780	2202				PRN/L		.3780	0493	0458	1599		2166	2149		
		.3010	2478				552.04	•	.3010	0093	0718	1814 2884 - 4809		2376	2133		
		.2510	4259				•		.2510	6400.	0468	3105 3069	4759	4107	4619		
		.2040	4224	1.0460	. 1690 . 0215		599.32		.2040	.0059	083 0580 0580		1211	3284	84L4	1.0460	. 1880
		.1770		1.0180	. 1002		= 599		0771.					. 5226 . 6226		1.0180	. 2341 . 0854
		.1660	.8617	.9990		2596 2596	o		. 1660	.0050	.0308	1579	.8259	.9210	6406	0666.	
	SE CO	.1590	,	.9600	2657 3572 .0721 0001	1827 1033 0532 3545	1.2454	LE CO	.1580					É	÷	.9630	2533 33 9
	DEPENDENT VARIABLE	.1120	.4922	.9210	1557 1557 .0089 1023	2013 0868 .0374 .1382	MACH ==	DEPENDENT VARIABLE	.1120	į	. 04.73 8.473	. 1812 . 2204 . 2891	#284.		.5119	.9210	2067
-3.881	DEPENDE	.0700	.3703	.8790	1630 1628 0035 0276	0798 0622 .0031 .3363	.178 MA	DEPENDEN	.0700	.1303	1057	. 4.50 4.50 6.50 6.50 6.50 6.50 6.50 6.50 6.50 6	.3830		6604.	.8790	1551
Ħ		.0460	.490	.8210	0917 0968 .0312 .0640	.3079 .3050 .3050	p		.0460	. 1822	. 2275 . 2275	3891	.5208		.5184	.8210	0939
BETA (1)	ig g	. 0230	.6230	.7790	0541 0774 2159 1605	.3188 .3019 .3014 .2885	BETA (2)	GF.	.0230	.3382	. 4733	. 5985 . 6337	.6602		.6432	.7790	0573
	R FUSEL	. 0080	.8881	.7290	0555 1628 0727	0732 0364 0079	901 BE	R FUSELA	.0080	.7867		<i>ettt</i> .			.8910	.7290	0472
011	1) ORBI TE	.0000	1.4228	.6520	0289 0487 0324 0039	0414 0534 0534 0624	D,	1) ORBITER FUSELAGE	.0000	1.4292		•			1.4292	.6520	0488 0576
ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 180.000	X/LB	PHI 000 00		ALPHA (2)	SECTION (X/LB	PH1 .000	40.00 70.00 70.00	70.000 90.000 120.000	140.000	191.030 169.000 169.000	180.000	X/LB	PHI 000 40.000

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								0110		025	1078	0837							
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	53)							N.		3780	•	. 0721	2072 2069	.2748	.2580	.2247			
	(XEBB53)							\$ C.		.3010	- 80+0*-	- 0690 -	2587 - 3716 -	2836 -	2431 -	2630 -			
								•		0125.	9110	0395	3794	4518	4853	4258			
				1.0460				599.32	!	.2040	0030	0584	0165 1279 1457	3250	3455	4442	1.0460	.1765	
	-140A B/C/R ORB FUSELAGE			1.0180				ii ii		.1730					.5371		1.0180	. 3874	
•	C/R ORB			ე666.		2473 3186		a		.1660	0247	. 0093	.3104	.7452	.8672	.8856	9990		2541 3545
	-1404 B/		BLE C-	.96 10	.010. 0654 2064	2588 16 8 1143	3994	1 . 24f 4	BLE CF	.1580					;	0.346.	.961 0	27(8 321 02 6 0752	3458
	-073(0A14B)		NT VARIABLE	.9210	0495 1284 2039	2442	.0344	MACH =	UT VARIABLE	.1120	, 0038	0175	.0902 .0994 .3057	.4235		4928	0.26.	2157 1819 0543 1405	
:	=	.178	DEPENDENT	.8790	0386 0835 1706	0984 0180	. 2647	4.247 M	DEPENDENT	.0700	. 1273	1588	. 1541 . 1667 . 2269	.3331		.3957	.8790	1656 1655 2551 1001	1762
	AMES	ج (ج		.8210	.0570 .0595 .0727	. 1349 . 3098 . 3324	.4219	#		.0460	.1543	. 1842	.2776 .3902	.4828		.5132	.8210	0857 0752 .1210 .0715	0095 .2839 .2839
		BETA (2	AGE	0677.	1931 0063 . 1445	.2382 .2544 .2779	.3164	BETA (3)	IGE	.0230	. 3292	.4590	.4897 .5279 .5773	.6042		.6370	C677.	0543 0380 1248 .0431	. 1995 . 2727 . 29-44
		.001 B	ER FUSELAGE	.7290	1353 1034	0251	0063	.000 Bf	OR FUSELAGE	. 0080	. 7728		.6316			.8656	.7290	0373 1686 1194	0197
			1) ORBITER	.6520	0498	.0001	0289		110RBiTER	. 0000	1.4188					1.4188	.6520	0721 0369 0742 0335	. 6700
		ALPHA (2)	SECTION (X/LB	70.000 90.000 105.000	135.000 135.000 150.000	180.000	ALPHA (2)	SECTION (X/LB	PH1 .000 .20.000	40.000 55.000	70.000 90.000 120.000	150.000	162.000 165.000 169.000	180.000	X/LB	PH1 - 000 70.000 90.000	

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				3.0121		57.0 0.7.0	0219	0024											
				•		.4970	0143	020-	1056	- 168	1027	0829	0697						
				FRV.L		. 5780	.0292	.0462	0757	2717	1966	2075	2304						
				- 551.34		3010	.0396	. 800.	0818	960+	3964	3591	2923						
				۵.		. 2510	.0677	. 0263	2211	1970	5079	4665	4734						
		1.0460		599.84		.2040	.0485	.0325	1506	. 0972	2374	3706	4696	1.2460	. 1482				
		1.0180		* 59		.1770					2			1.0180	.3553				
		ე666 .		ø		. 1660	.0567	. 0622	9.50 10.00 1	.5084	.8805	2116	5728.	. 9990		i P	6322		
	RE OP	.9600	6 1 64	1.2467	BLE CP	.1580							.9543	.9600	- 1-37	0072 0063 1640	1,1541	0856	? •
	DEPENDENT VARIABLE	.9210	0251	MACH .	DEPENDENT VARIABLE	.1120		.0817 .1319	. 22.40 83.00 69.00	8007E.	4116		.4133	.9210	1018 0529	1034 1750	2212	00.00	
4.247	DEPENDEN	.8790	2016	-3.877 M	DEPENDER	.0700	. 1623	.1587	.3282	3230	7575.		.2744	.8790	0379 - กรกร	0558 0316 1339	0957	1.041.7 Range	
		.8210	.3247	#		.0460	.2705	3492	#8 # # # # # #	7.694°	. + 347		.4031	.8210	.0354	0177 0536 1:60	. 1455	. 2054.	.31:18
BETA (3)	GE	.7790	.3049	BETA (1)	lGE 1	.0230	\$G 4.	.6091	.6937	. 6933 . 6562	:173:		4909	0677.	.0882		.2327	2669	2616
.000	R FUSELA	.7290	.0162		R FUSELA	.0090	.8868			.8622			.7483	.7290	.0703	1872 1376	0919	.0519	.1042
0.	1 JORBITE	.6520	0676 0656	3.94	1 1 ORB 1 TE	. 0000	1.4033						1.4033	.6520	.0382	. C298	+. CB26	020:	0353
ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA (3)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1	20.000	55.000	98.000 126.000	140.000 150.000	151.000 162.000 165.000	000.691 174.900 180.001	X/LB	PH1 C00	90.000 90.000 105.000	110.030	150.000	180.000

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609		3.0121		5740	0115	0101											3.0121		5740	3212	0252		
PAGE		•		€ 970°	0085	0252	1130	C901	0592	£.40	0469								0.6970	0089	040	1103	0679
	(XE8853)	t FBV/L		.3780	.0246	.0267	1342		1880	2135	2295						EN/YE		.3780	.0238	.0090	1850	
	e3x)	551.3		.3010	.0492	.0130	1521 2095	9	3702	2942	2659						. 551.34		.3010	. 0501	.0107	2039	
		۵.		.2510	.0744	1140.	2670 	1.03	5130	80 th	5134						•		.2510	.0577	.0466	3054	3451
		599.84		.2040	.0682	.0578	1111	0869	3301	3704	5119	1.0460	. 2821 . 1244				599.84		. 2040	.0496	0.00	.0317	0923
<u>-</u>	FUSELAGE	1		.1770					.5367	. 5955		1.0180	.3646				# 86		.1770				
11-073-1	989 8	σ		. 1660	. 03.48 8.48	107.	. 1967 . 1967 . 2345	. 1965	. 7938	.8791	.8645	0666.		į	2564 3159		ø		. 1660	7447	.0745	1392	₩.
8 (AMES	-140×/8/C/R	1.2467	BLE CP	.1580						:	99:66	.9£ 00	1726 2123	0639 0600 2264	2580	1513	1.2467	SLE CP	.1590				
A - 0A148	-073(0A148)	MACH	NT VARIABLE	.1120	0.00	. 0987	. 1623 . 1840 . 1840		. 3993		. 4252	.9210	1008 0805	0746 1456 2126	2565	0589 .0084	# HOW	IT VARIABLI	.: 120	7867	.0693	.0764 .0918	.2280
RESSURE DATA	==	. 183 m	DEPENDENT	.0700	. 1828	. 2038 . 2038	. 2380 . 2274 . 2005	1	. 2508		. 2864	.8790	0370	0614 1013 2035	1107	.2310	.232 M	DEPENDENT	.0760	1834 683		0 01 01 0 00 01 0 00 01 0 00 01	-
a.	AMES	"		.0460	.2713	3015	3607		.423t		.4066	.8210	.0377	.0323 .0323 .0570	.1003	.4516	. 5		.0463	. 2854 5775	1. 2. K	.0395	. 3248
TABULATED		BETA (2	AGE	. 0230	1914 1974	5328	. 585.		.5387		.5059	0677.	. 0932 . 094	2494 0516 .1223	.2329	25. 25. 48. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	BETA (3)	波	. 0230	1914	1. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	10 m	. 100
		.9 ⁴ 5 B	FUSEL	.0080	.891		.7212				.7339	.7290	Ģ,	1858 1316	0304	.0317	38 646	R FUSELAGE	. 0083	.879⁴		.5750	
B 76		m •	1 JORBITER	.0000	1.1004						1.4084	.6520	.0328	0710 0313	0167	.0081 .0081 .0074	3.9	130RB1TER	. 0000	1.2933			
SATE 10 FEB		ALPHA (3)	SECTION (X/LB	PH1 . 000 . 050	40.000	70.000 90.000 120.000	140.000	151.000	165.000 169.000	180.000	X/L8	PHI - 000 - 000 - 000	90.060	120.000	150.000 165.000 180.000	ALPHA (3)	SECTION (X/LB	PH1 .000 20.000	FO.000	90.000	זכת. חסי

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AMES 11-073(0A148) -140//8/C/R ORB FUSELAGE

ALPHA (3) .

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			265.	0505	0522	į	5			ı	M H	076*	.0473	65.	1502 1789 2951	2911:	858
606			3780	2141	2401	6366	- 5505					.3780	5160.	9511.	0631 - 1278 - 4308 -	.2330 -	- 4715.
Ray.			3010	233	2765	2002	.6933				(c. 10g	.3010	7 680.	.0839	.0584 .0847	4766	4053 -
		į		5065	5178	14505	}			•	•	55:0	.1014	.1285	1794 1947 2051	.5565	5173
		0.00	. 6040	2595 4022	3823	7067	1.0460	.2861				.2040	. 0952 899	1165	, , ,	. 2023 -	- 4195 -
		1		# C	/9Ic.		1.0180	.3640 .2045		* 500 C		1770				. 5994	•
		1550		.7250	.8358	.8521	.9990		2597	a	l	.1660	.1144	. 2300	2765 2929 4972	. 8586	.8813
	BLE CP	_				9138.	.9€00	1618 2673 0644 1426	4219 2554 2227 3633	1.2435	E C 3	.1530					.8838
	DEPENDENT VARIABLE	.1120		.3421		.3981	.9210	0980 0812 1144 1751	3332 2103 1471 0509	ņ	VARIABLE	.1120	.1660	. 2219 . 2425	24.29 25.59 25.05 25.05	.2358	
۴.232	DEPENDE	.0700		.2149		.2747	.8790	0336 0445 0783 1302	1870 1339 0464	376 MACH	DEPENDENT	.0700	.2571	.3213	.3286 .3123 .2620	. 1825	
		.0460		.3886		.4130	.8210	.0383 .0570 .0209 .0144	0265 .2386 .2384	= -3.876	u	.0460	.3795	. 4871	.4269 .4501 .3941	.3387	
BETA (3)	AGE	. 0230		. 4929		.5052	.7790	.0922 .1052 2091 0164	. 2829 . 2492 . 2658 . 2656 . 2656	(A C 13	щ	. 0230	.5375	-03/3 -7172 	. 655 . 657 . 669 	, 555 165 165 165 165 165 165 165 165 165	
8 676	1) ORBITER FUSELAGE	.0080				.7095	.7290	.0806 1993 1292	0147 .0542	75 BETA	FUSEL AGE	.0380	和6.		6:18:		
	1) ORB 1 TI	.0000				1.3933	.6520	. 0585 - 0690 - 0250	. 0125 .0004 .00074	7.975	1) ORB! TER	. 0000	1 5892 .				
ALPHA (3)	SECTION C	X/LB	PH1 140.000	150.600 151.000 162.000	169.000 169.000 174.000	180.000	X/LB	. 000 . 000 70.000 90.000 105.000		ALPHA (4)	SECTION C 1	X/LB	20.000 -0000 -00.000	55.600	90.000 180.000 140.000	150.000 151.000 162.000	155.000 169.000 174.000

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AMES 11-073(0A148) -140A'B/C/R 0RB FUSELAGE BETA (1) SECTION (1) ORBITER FUSELAGE 7.975 ALPHA (4)

3,50 .4970 £983.-3780 - XXX .3010 -. 3227 500 -.5064 -.5123 .2040 1.0460 .3472 .1886 .1770 .4583 1.0180 . 1660 . 7928 .9990 -.2418 -.1738 . 1530 -.11:-7 -.15:11 -.0655 -.0234 .96)0 -.2758 -.1745 -.1434 -.3552 DEPENDENT VARIABLE C> -.0236 -.0042 .0132 -.1591 .9210 -.2463 -.1490 -.0445 -.0768 .1120 . 2434 .0700 .1707 .0345 .0345 -.0778 -.1683 -.1139 -.0858 -.0182 -.2481 .8790 . 1272 . 1347 - 1445 - 0229 .0460 .3215 .8210 .0780 .1712 .2049 .4234 .3715 . 0230 .1722 .1705 -.3227 -.2733 .7790 .0910 .0910 .0889 .1168 .0080 .6070 -.2513 . 1332 . 7290 -. 0223 -.1614 .0039 .0000 .1073 .1346 -.1382 -.0945 1.3585 -.1638 -.0409 .6520 PHI 183.000 .000 90.000 90.000 105.000 110.000 125.000 155.000 155.000 165.000 E E

37.0 986 883 0.63 .8310 .0369 -.2005 -.1737 -.1587 Ž - 1269 - 1835 - 374 .3780 .0892 .0859 551.57 - 1335 - 1712 - 4482 .3010 . 1058 5770 . 85 61 61 61 61 .1036 57.19.-47.49.-. 1142 .1083 .0949 .1053 .1326 .1326 .0970 .0952 .07:7 . 2040 040 599.91 1770 .1660 .1163 .1170 .1672 .26.8 .26.8 .24.19 a 1.2465 . 1590 DEPENDENT VARIABLE CP .1120 . 1526 . 1875 . 1637 . 1597 . 1964 .169 MACH .0700 . 2452 . 2452 . 2834 . 2834 . 2219 . 2219 3860 3860 3860 3865 334: 3463 3365 3366 .0460 .3359 BETA (2) .0230 .5634 .5634 .5634 .6256 .6359 .5762 .5549 4335 SECTION (1) ORBITER FUSELAGE .0080 1.0075 .6792 7.918 .0000 1.3751 ALPHA (4) 23.000 43.000 73.000 140.000 151.000 151.000 152.000 154.000 X/18

-.5559 -.4826 - 5553 -.5-53 -.4132 . 3-59 1.0450 .5336 1.0190 .4579 8345 7730 8227 . 9390 - 1089 - 1484 .8705 O 89 .9210 -.0:72 -.0:78 .053: 2678. 32:: 821C .:3:0 2677 .1875 .2010 . 3890 .5936 . 1453 7293 . 5520 .1155 37.51

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AMES 11-07310A148) -140A'8/C/R ORB FUSELAGE

				3.0143		.5740	.039	.0276							
				•		0.6970	.0514	.0097	2060 1597 0964	0481	9431	0608			
				7 FEW/L		.3780	. 1922	.0625	; <i>J27</i> 2339 2273	1926	2240	2327			
				- 551.57		.3010	.1042	.0613	1832 2249 4918	3701	3084	3140			
				<u> </u>		.2510	.0917	.0816	2546 3320	5590	5326	4891			
•		1.0460		599.91		.2040	.0901	9 9 9 9 9 9	.0948 .0981 .0276	4123	4203	5307	1.0460	.3531	
		1.0180		# 52		.1770			•	0	5011		1.0180	. 4634 . 2860	
		0666.	2389	ø		. 1660	.1074	.0980	1364 1364 1902 3670	.7015	.8038	.822 4	0666.	9 9 1	3647
	BLE C>	.96 10	0082 10:7 27:9 35:6 18:9	1.2465	BLE CP	.1590					. 83.62		.960	10°5 1512 0768 2463 3154	4588 2866 2547
	DEPENDENT VARIABLE	.9210	1389 1979 3115 2838 1880 1217	MACH	NT VARIABLE	.1120	4461	1292	.0695 .0695 .0704 .1331	. 1805		.2142	.9210	0254 0349 2187 1935	3526 2366 1983
. 169	DEPENDE	.8790	1115 2215 2858 1540 0808 0195	. 233	DEPENDENT	.0700	.2703	.2350	1631 1631 1984 1397	.1164		. 1690	.8790	. 0520 . 0378 1436 2239 3540	2091 1419 0878
n S		.8210	7.0091 .0091 .0643 .4849 .4844 .4855	.T		.0460	.3860	.3373	8874°. 8874°. 8879°.	.3149		.3399	.8210	. 1325 . 1466 0957 0405 0059	0804 .2461 .4545.
BETA (2)	AGE	.7790	3175 2594 0329 .1148 .1187 .1611 .1942	BETA (3)	AGE	.0230	.5375	5280	##### ##### ##### #####	.3976		.3912	.7790	. 1775 . 2073 3133 1351 . 0295	.0876 .1870 .2375
7.918 B	1) ORBITER FUSELAGE	.7290	19472 1905 0856 0348	7.882 BI	ER FUSELAGE	.0080	1.0000		.5304			.5705	. 7290	.1500 2853 1843	0651
	1.0RB1T	.6520	1319 0777 0705 0211 0117	- 7.8	1) OPBITER	.0000	1.3643					1.3843	.6520	. 0795 . 1005 1162 05+7	0143
ALPHA (4)	SECTION (X/LB	70.000 90.000 105.000 120.000 135.000 155.000 165.000	ALPHA (4)	SECTION (X/LB	PH1 .000 .20.000	40.000	20.02 20.02 20.000 20.000	150.000	162.000 165.000 169.000 174.000	180.000	X/LB	PH1 . 000 70.000 90.000 105.000	135.000 135.000 150.000

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TABULATED PRESSURE DATA - DAIHB (ALES 11-073-1)

AMES 11-073(0A148) -140A. B/C/R ORB FUSELAGE BETA (3) 7.882 ALPHA C 43

SECTION (1) ORBITER FUSELAGE

1.0180 1.0460 9990 G . 96.c 1.2462 DEPENDENT VARIABLE CF -3.857 MACH = .9210 -.1316 . 1235 .8790 .8210 .4005 BETA (1) .790 . 1597 . 1597 .0063 .7290 = 11.916 -.0203 .6520 PH1 165.000 180.000

.1345 4970 - 1476 - 1903 - 4400 .1275 - 1549 Z .3780 . 1822 -.0527 -.1164 -.5548 . 1631 -.2734 -.2377 -.2085 550.64 .3010 -.0498 -.0708 -.3799 .1355 .1596 -.5319 -.4469 -.3397 .8510 -.1678 -.1678 -.1992 .1457 .2040 -.5918 -.5535 -.5323 .1535 .1535 .1581 .1757 .2113 .1972 .1270 -.5438 -.4616 1.0460 500.48 .1770 . 1660 .1903 .2017 .2465 .2019 .1936 .2420 8430 .8534 .7626 . 1560 .7843 DEPENDENT VARIABLE CF .1120 .1276 .0700 3544 3544 4141 3869 3869 3199 2834 1795 .1005 .1167 .0460 .4830 .5368 .5451 .5127 .4516 .4056 2279 .2345 .8210 . 0230 .6644 .7091 .7384 .6680 .6061 3374 .2535 .7790 SECTION (1) ORBITER FUSELAGE .0080 .7549 .7290 .4651 .0000 1.3192 .6520 1.3192 ALPHA (5) 20.000 55.000 70.000 90.000 120.000 150.000 151.000 151.000 151.000 151.000 165.000 165.000

1.0180 .5413 .3564 .9990 -.3466 -.2958 .9603 -.0659 -.1102 -.0983 -.1573 -.1993 -.1863 -.240+ -.3712 .9210 .0336 .0428 -.1184 -.1025 -.1359 -.2216 -.1655 -.1631 -.0132 . 1224 . 0988 - 0710 - 1748 .8790 .2129 .2295 .1873 .0589 . 1800 . 1800 . 3053 -.0063 .0031 -.0453 .0485 .0485 .3203 .3203 .091 .3552 .2822 -.3782 .2745 -.2041 -. 1913 .000 70.000 90.000 105.000 110.000 135.000 150.000 150.000 185.000 Ŧ

1575

-.2108

-.1032 -.0671 -.0496

	3.0151		.5740	1382								3.0151	5740	.1297	. 1050
	•		.4970	1265	. 250 1655 1655	0911	±6±0∵	. 0396					.4970	.1205	.0739 3006 2482 1396
33	RN/L		.3780	.1602	- 1257 - 1784 - 5442	2160	- 1958 -	- 1927 -				RN/L	3780	.1667	. 1985 - 2342 - 3596
(XE8893)	550.64		.3010	1578	1198 1457 4297	-	- 3565 -	3188 -				550.64	3010	.1461	.1064 1713 1958 4672
	•		.2510	.1370	1719 2204 2635	5883	5132	5719				# Q.	200	. 1427	.1031 2049 3206
•	84.009		.2040	1351	. 1179 . 1179 . 1388 . 1388	0590	2444°-	5704	1.0460	. 3938		600.48	040d	1552	. 0546 . 0551 . 1132 . 0763
USELAGE	800		.1770		•		. 5513		1.0180	.3575		* 600	0771	•	
-140A/3/C/R ORB FUSELAGE	σ		. 1560	1898	. 1197 . 1291 . 1987 . 4255	.7451	.7877	.7818	.9990	8	3054 3054	ø	1850 1	1.00 8.00 8.00 8.00	. 1380 . 0415 . 0531 . 1543
140A/3/C	1.2462	ILE CF	. 156)				į	. (B)	.960	056 1007 0203 0894	373? 273) 219? 380;	1.248?	ABLE CP		
	MACH #	IT VARIABLE	.1120	.2218	. 1580 . 1576 . 1376 . 1366	.1352		.1380	.9210	.0371 .0293 2118 1969	2954 2167 1657 0948	MACH #	VARI	Š	. 1690 . 0515 . 0760 . 0534 . 0859
AMES 11-073(0A148)	. 181 MA	DEPENDENT	.0700	3717	. 3641 . 2900 . 2286 . 2032	6960		11141	.8790	.1263 .1073 2377 2784 3196	1997 1307 0666 .1695	.245 MA	DEPENDENT	.3562	1949 1949 1434 1683 1099
AMES			.0460	.4896 .4872	.4820 .4020 .3418 .3121	.2493		.2439	.8210		0294 .1621 .4149	j H	0460	0.4870	. 1970 . 2851 . 2321 . 1970
	BETA (2)	AGE	.0230	.6599	. 5888. . 6162 . 5482 . 5039	.3184		.2676	.7790	.3174 .3174 4127 3354	.0273 .0435 .0308 .0724	TA (3)	GE	.6585	. 1888 1.035
		FUSEL	.0090	1.1159	.6143			.4453	.7290	.3025 3750 2534	1276 0932 0223	.925 851,	R FUSELAGE	1.1062	. 468 ₁
	• 11.930	1) ORBITER	. 0000	1.3249				1.3249	.6520	.1856 .2054 2327 1391	0883 0605 0356 0292	11.9	130RB1TER	3144	
	ALPHA (5)	SECTION (X/LB	PH1 .000 .000	40.000 55.000 70.000 90.000	140.000	151.000 162.000 165.000	180.000	X/LB		528888 528888	ALPHA (5)	SECTION (P. 1990.	55.000 75.000 76.000 96.000

TABULAT
8: 834
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DATE

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

FUSE
ORB
B/C/R
-140A/I
(841)
073(04
-: -:
AMES

			.5740					
			0.4970	0549	0431	0598		
853)			.3780	1833	1920	2194		
(XE8B53)			.3010	4036	3281	3413		
			.2510	5898	5379	5191		
			.2040	1463	4501	5568	1.0460	. 2350 . 2350
FUSELAGE			.1770	.4337	.4879		1.0180	. 3578
C/R ORB I			. 1660	.6648	.7623	.7940	0666.	*. 3683 *. 44.35
-140A/B/		SLE CP	.1580			080/.	.9600	0456 1155 0310 3186 5130 5130 5875 4027
(0A14B)		DEPENDENT VARIABLE CP	.1120	. 0982		.1165	.9210	
AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	4.245	DEPENDE	.0700	.0598		.1076	.8790	. 1156 . 1041 . 2556 . 3578 . 3578 . 4583 . 1545 . 1543 . 1376
AME	ħ		.0460	.2298		.2587	.8210	
	BETA (3)	AGE	. 0230	. 2923		5075.	.7790	. 4179 . 4079 . 4179 . 6995 . 6995 . 727 . 1308 . 6787 . 6787
		110RBITER FUSELAGE	.0080			5714.	.7290	. 2865 3573 2437 1008 0437
	= 11.925		0000.			4+1E::	.6520	1721 1777 1777 1777 1777 1777 1777 1777
	PHA C 00	SECTION (/La	PH1 150.030 150.030 151.030	169.000 169.000 100.000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	/LB	# 35 % 35 % W W W W W W W W W W W W W W W W W W

AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE

916 PAGE

05 AUG 75 (XE8B24)

PARAMETRIC DATA

-10.000 16.300 4.000

SPOBRK L-ELVN MACH

RUDDER BOFLAP R-ELVN

55.000 -4.000 1.100

707.69

٥,

600.89

a

* 1.1014

-3.853 MACH

BETA (1)

-3.970

ALPHA (1) =

SECTION (110RBITER FUSELAGE

1076.6800 IN. XO .0000 IN. YO 375.0000 IN. ZO

XMRP YMRP ZMPP

2690,0000 SO.FT. 47+.8900 IN. 936.0080 IN.

SREF *
LPEF *
BREF *
SCALE *

REFERENCE DATA

DEPENDENT VARIABLE CP . 1120

.0700

.0460

.0230

.0080

. 3396

.5490

...

3.1837

PN L

.3010

.3780

.2040

.1770

. 1660

.5740

-.1052 -. 1601 -. 1311

-.1423 -.2001

-. 0255

-. 1483

-.2400 -.0872

-.0613 -.1077 -.2496 -.0615 -.0811 -.0198 -.2968

-.0218 -.1600 -.1600 .0194 .1544 .3981

-.0703 -.0703 .0910 .2933 .4914

.0103 -.0399 -.0105 .1859 .2999 .3640 .4881

0536 0536 0823 2719 2887 4697

1312 1598 3469 5153 6654 7026 7309

5778.

-.0408

-.0105

-.0894 -.1009

-.1728 -.3245 -.5413

-.1711 -. 3262 -.4026 -.3550 -.2895

-.5155

-.0416

-.0364

-.1973

-.2791 -.4198

.5474

8331

.5794

.5486

1837

-.4434

.8889 8196

.9784

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1.0460

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e V

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9753

. H. BB .6523 ..2358

.0557 -.0357

3502 3502 3519 3793

.0722 .0778 .2035 .3145 .375

. 1884 . 1884

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770 CCC 970 CCC

1.0180

.0185

. 2468 . 0383

-.3433 -.5019 .1468 .1189

-.2910 -.2722 .1980 .1356

.0593 .0445 -.0496 -.3793

..0921 .0161 .0791

-.1035 -.3242 .3570 .2933

5.537 5.537 5.533 5.533 5.533

5284 5284 5073 5073

3516 2233

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817	· •	7 1827		F.740	2	0273	0184	,													į	. 1837		24. C		.0175	
PAGE		=		4970		0936	1119	0255	0350	0231	0146	5	•								i	v) H		57 9 4.		. ces	0117 0109 0350
	18th			47AN		1261	1423	1192		2116	2217	- 2267									į	7		.3780 -		- 00+1.	1168 1198 2127
	(XEBB54)	= 707.69	:	3010		1394	1885	2436	6200	2851	2264	P. 2069	•								707	60.101			1001	- 5601.	4636 - 6933 -
		۵.		.2510		0845	1902	4677	394B	5113	4514	5477	•										2	0863	161		. 5215 . 5033 . 4824
		0.89		.2040	•	0478	1763	1.0871	-,1579	4200	4476	4797	1.0460		. 1882	. 0565							מינים	-	0637	. 1382	1472 3001 2848 -
<u>.</u>	FUSELAGE	# 600		.1770						.4587	. 5329		1.0180	•	.2654	. 0829					= 600.89		1770		• •	•	
AMES 11-073-1	989	o		. 1660		0111	1030	.0521	1 th	.7613	.8581	1158.	.9990	!				3351 2046			o		. 1660	.0179	0620	.0363	.000. +200. 1834
_	-140A/B/C/R	1.1014	BLE CP	.1580								.9656	.9600		3295	4480 .0672	0015		355 255	J ,	1.1014	a) G)	.1580		•	•	
A - 0A148	11-073(0A148)	MACH	NT VARIABL	.1120		0417	0420 .0589	. 2041 . 2041		00 tg.		. 5843	.9210		3024	6835 0822 0922	1244	1893	0929 0350		Ħ	T VARIABLE	.:120	f u	. 0218	. 02.97	3086
SURE DATA	MES 11-073	. 182 M	DEPENDENT	.0700	Ċ	0109	0097 .1225	2707 2707 8787		.5028		.5417	.8790		2428		1045		0882 .0168	<u>.</u>	263 MACH	DEPENDENT	.0700				.2785
TABULATED PRESSURE	AME	"		.0460	000	0709	1984	3544		9009.		.6209	.8210		1546	. 3156 .3156	2971	-262t	. 5691 . 5651	.6532	, ,		0€+0.	0806	523	0.70 0.00	0000 0000 0000 0000
TABULA		BETA (2	AGE	. 0230	1	. 1569		. 5859 6883		869/·		.7324	0677.		0794	3059	.3673	ယ္ဆင္	3. IC.	``	TA (3)	Ħ	.0230	0.5	E COL	΄	. 50 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
		126	ER FUSELAGE	.0080	4456	;		.7385				.9518	.7290		0325	.1193		.2478	.3108	.3158	36	R FUSELA	. 8383	.5378			.59:7
to to		" .3	1) ORBITER	.0000	1.3213							1.3213	.6520		.0570	. 1303 . 1469		.1632	477	0.01.	-3.99	1)CRBITER	t) () ()	1.3057			
DATE :0 FEB		ALPHA (1)	SECTION C	X/18	PHI .000	80.00 40.000	55.000 70.00	Ci Ci i	$G_{\mathbf{r}}$:51.000 :57.000	185, 000 189, 210 174, 800	000 C00:	E X	ă	38	70.600 90.000	96	5.5 8.5		38	- 11 : W	SEC*:04.0	m .1 ⊁	6 0 7 0 7 0		78 10	uo

(XEBB24)

OE	
OA/B/C/R ORB FUSELA	
AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	+.263
AM	BETA (3) = 4.263
	-3.991
	A. PHA (1) =

		0+75. 0794. 0378. 0105. 0	H266128380384	1231325460346	7232521780426				= 707.69 RN/L = 3.:854		0 .3010 .3780 .4970 .5740	089308391061	137613560432 233215740499 542718300860	2410918000542	9376521500464
		2040 .2510	85 '085264	1115441	56984197	60	1569 0210		۵.		122. 0+	1		31 +96062	554889
		•	4685	421	56	1.0460	• •		600.89		.2040	0061	0396 - 0219 - 0110	3449	4865
		.1770	.3538	4558		1.0180	.2192 .0684		•		.1770			ć	.5678 .5678
		.1660	.6750	.8139	.8375	0666.			ø		. 1660	. 0031 0031	1097 1097 1973 1973	.8087	.8530
	3LE CP	. 1580		!	.9150	.9600	3569 4527 0092 0830	3470 2255 2165	1.1014	LE CP	.1580				.9394
	UT VARIABLE	.1120	.4770		.5745	.9210	3024 2798 0004 1248	3026 2050 1565 0750	MACH ==	I VARIABLE	.:120	3. 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	. 1898 . 2786 . 3200	.5101	
.263	DEPENDENT	.0700	.4560		.5398	.8790	2466 2513 0078 0794	2814 1667 0530 1444	870 MA	DEPENDENT	.0703	.0789 6020 7000	. 2557 . 3558 . 3522 . 4332	. 4546	
j H		.0460	. 5584		.614t	.8210		.4930 .4930 .6078	# -3.		.0460	1673	. 4730 . 4730 . 4730 . 4730	.5+36	
BETA (3)	. EGE	.0230	. 6659		.7317	.7790		3005. 20044. 20444. 20444. 20884.	TA (1.	H	.0230	3 fr ((n (n) (n (n) (n)	. 6552 . 6552 . 6584 . 7168	.6758	
38 166	R FUSELAGE	.0080			.9460	.7290	0226 .:2:3 .:725	.2309 .2843	C9 65T	A FUSELAG	.0080	8169.	8496		
# B	1) CABITER	0000.			1.3057	.6520	10 to 00 to	ច ចល់ ថា ២ឃុំក្	<u>ن</u> ن	31189011	0000.	90 63 M			
ALPHA (1)	SECTION (×/∟B	PHI 55.88 51.88	189.000 189.000 189.000	3.58 3.08 3.08	III 1	10000 T	1000000	At Pick (2)	0.10011035	e lik	- 686 - 200	ာင္းကရာ လူသည္ကိုင္း ကြင္းကြင္း	386 186 186	18888

OA148 (AMES 11-073-1) PAGE 819	1148) -140A/B/C/R ORB FUSELAGE (XE8B54)		VARIABLE CP	.1120 .1580 .1660 .1770 .2040 .2510 .3010 .3780 .4970 .5740	504024990460	9210 .9500 .9990 1.0180 1.0460	206127772905 .1933 17854307 .1609 .0854 .1518 .1330 .0603 .0991 1023 .0731	1608 .04112040 765309952040 00241032 .06163775	= 1.1014 Q = 600.89 P = 707.69 RN/L = 3.1864	VARIABLE CP	0472. 0784. 0875. 0105. 0185. 0405. 0771. 0381. 0811.	.0334 .010503200874084109870313		. 1045 . 1236 . 3244		.5059 4974514623940269 8285	5099 5085 5475 6146 1563 6166.	9210 .9600 .9390 1.0180 1.0460	3228
				. 2040		1.0460	. 1933				.2040	-	0678		-	4 204.		1.0460	.2136 .0876
				.1770		1.0180	.1609				.1770				6144	. 5059		1.0180	. 3228
11-073-				. 1660	.7755	0666.		3040 2040	ø		.1660	.0334	.0028	1045 1236 3244	.7357	.8285	.8:06	.9590	
~	-140A/B/			.1580		.9600	-,4307 -,4307 -,1330 -,0991 -,0731	. 0411 0995 1032 3775	1.1014		.1580						G625.	.9600	2741
¥.	1148)		ARIA	120	0 + 0	3210	2061 1785 1518 1603	1608 1553 0324 0616	n	RIA	20	50	H 4	លិសិសិ	57		660	9210	2192
1	8			-	ĸ.	٠:		111	ACH		Ξ	Ö	8.4	2373	4.		Ŗ.	•	
DATA -	S 11-073(0A148)	.870	DEPENDENT V	. 0070.	. 4395 . 5	9. 0678.	1413 1403 0568 0796	1403 1020 2568	.176 MACH	DEPENDENT VA	. 0070			. 2470 . 2387 . 3454 . 392	74. 88:4.)Z. 8744.	. 8793	1617
PRESSURE DATA -	AMES 11-073(0A) = -3.870			•	•			= .176			. 0582 5840.	. 0912 2191		<i>3</i> ,		•	•	1617
DATA -		# = = =	DEPENDENT	60 .0700	. 4395	. 8210 .8790 .	2581 - 1413 2490 - 1403 2657 0568 2700 0182 2768 - 0796	361403 711020 300096 502568	(2) = (176	DEPENDENT	0040 . 0340	. 1758 . 0582 . 1575	1931 .0912	. 3+280 3+70 3+70 4-13+15	P. 8814. ST:		. 8444. +4	. cere. o:	:575
PRESSURE DATA -		BETA (1) = -	FUSELAGE DEPENDENT	.0460 .0700	.5128 .4395	. 8210 .8790	05811413 04901403 .2657 .0568 .27000182	.28861403 .4371 - 1020 .40900096 .2568	BETA (2) = .176	FUSELAGE DEPENDENT	.0450 .0700	. 1758 . 0582 . 1575	1931 .0912	3509 .2280 .3509 .2470 .4550 .3454	4. 88:4. 07:3. 805		. 8174 . 4718 . B	. cere. a:56	07271617 362:1575
PRESSURE DATA -		# = = =	DEPENDENT	.0230 .0460 .0700	. 6046 .5128 .4395	. 7750 .8210 .8790	.0527 .018105811413 .029204901403 .1465 .0664 .2657 .0568 .0872 .1530 .2075 .	.3891 .28861403 .4475 .43711020 .4500 .40800096 .4231 .4560	(2) = (176	DEPENDENT	.0230 .0450 .0700	.2651 .1758 .0382 .2828 .1575 .0493	1931 .0912	. 55.73 . 3189 . 2280 . 59.29 . 35.09 . 2470 . 53.05 . 4554	4. 88:4. 07:3. 805		. 6209 .5174 .4478	. 5678. 0:58 CETT.	

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AMES 11-073104148) -1404'8/C/R ORB FUSELAGE

							Š	5.185		07.C.	0418	.0157													
							1		Ş	0/64.	1076	0968	5	-0337	. 0363	0395	0395	(C#0)							
· ·							à			09/5·	0876	0977	0000	1691 1691			2766	2467							
!			•				707		6106	. 3010	0873	1300		3706		. 3366 .	.2992	3035 -							
							•		2	0103.	0397		Cuon				6162 -	- 9664							
		1.0460					690.89		0400		1600	_	- 0504 - 028 - 038			,000	5026 -	.6110	0460		. 1924	. 0479			
		1.0180					=		1770			•	•	• •	•	.3431		•	.0180		.2665	. 1 533			
		.9990		3345			ø		1660		.0242	.0353	. 0522 9520	. 0569	.6568		. 1786	.7965	. 9590					7+04-	.3186
	PLE C	.96 30	.0535 .0331 .00 +		1846 1738	39 JB	1.10 4	LE CP		_				•			į	.87F1	0.096.0		.2778	. 05F.0	-,1063		38:7
	DEPENDENT VARIABLE	.9210	.0601 0376 1679		- 1419 - 0948		MACH *	T VARIABLE	.1120		.0306	.0587	1464	.3134	.4272	!		.4993	.9210				1638 -		- 85+38-
.176	DEPENDE	.8790	.0150 0435 1322		0830		4.243 MA	DEPENDENT	.0700		.0845	. 0715 5851	±84.	. 1568	.3711			.4432	.8790				1136 -		
		.8210	.2355 .2172 .1833		.4485	.5370	* *		.0460		.1725	. 1563	2159	.3510	.4701			.5125	.8210				. 1913 -		n.
BETA (2	ы ы	.7790	.1574 .1999 5775.	.3279	. 4006 976	.4136	TA (3)	Ħ	. 0230		14.00 16.00 16.0	.3366	.4337	.4716 .5390	.5770			.6159	.7790				. 16+8 .2382	.2734	7555
092 BE	1) ORBITER FUSELAGE	.7290	1488	.0738	. 1899	. 1869	026 BETA	R FUSELA	. 0380		.6764			14/0:				.8211	.7290			.0987		5111.	!
	1) ORBITE	.6520	.0210 .0492	.0627	.0945	. 0955		170RBITER FUSELAGE	.0050		1.3198							3198	.6520	62.00	. 0959 . 0959	•	9283	. 1051	1
A.PHA (2)	SECTION (X/LB	PHI 70.000 90.000 105.000	135.000	150.000	180.000	ALPHA (2) :	SECTION (X/LB	IHd	. 00 . 00 . 00 . 00 . 00 . 00 . 00 . 00	55.000	70.000	120.000 140.000	150.000	162.000	169.000 174.000	1 000.08	X/LB	PHI	40.000	0.00 0.00 0.00 0.00	105.000	120.000 120.000	135.000

621						3.1859		.5740	0435	.007⊌								
PAGE						•		.4970	0574	0655	- 1044	1692	0765	0540	0532			
	(1 0					FN/L		.3780	0327	0077	1409	3072	2115	2235	P.S.			
	(XE8B3K)					707.91		.3010	0320	0379	1303		4919	4516	3537			
						•		.2510	.0140	0174	3298		6726	6018	5826			
				1.0460		600.53		.2040	# <u>0</u> +0.	.0083	.0827	0028	3239	5489	6558	1.0460	. 1269	
~	FUSELAGE			1.0180		• 600		0771.						. 5359		1.0180	.3681	
11-073-1	989			J666.		σ		. 1660	.0925	.0044	1992	.4226	. 7903	.6207	.7345	. 9990		. 253. . 2188
3 C AMES	-140A/B/C/R		RE CP	. 9600	4248	1.1009	ורב כם	.1580						ė	5 5 7	.9600	2410 3793 1107 0556 0395	0145 1638 1624 3902
0A148	-073(CA148) -		DEPENDENT VARIABLE	.9210	1265	MACH	IT VARTABLE	.1120	o C	.1560	.2963	. 4200	.4385		.4325	.92:0	888 680 680 680 680 680 680 680 680 680	00000000000000000000000000000000000000
SUPE DATA	AMES 11-073	.243	DEPENDE	.8790	.1157	3.873 MA	DEPENDENT	.0700	4171.	2176	33.55 34.76 37.75	.3676	. 3528		2443	.8793	1.0893 0183 0188 0188 1.0383 1.1883	1659 1518 0759 -2016
ED PRESSUPE	AMES	#		.8210	.4683			.0463	.2600	3307		.4737	.4362		49:4°	.8210		CONTROL DO
TABULATED		BETA (3)	IGE	0677.	3959 4109	EETA (1)	ñ	. 0230	. 3832	5709	. 650. 6708.	. 647 8	.5614		.4633	56	M B M 3 1- 1- 1- 1 1- 1 1- 1 1- 1	0.000 ± 3 0.000 ± 3 0.000 ± 3 0.000 ± 3
		38 920	1. CRBITER FUSELAGE	.7290	3412.	932 EE	A FUSELA	.ocad	.8227		.8297				.7203	.7≥90	# 1 M # 5 G # 5 G # 6 G	0 00 2 0 6 3 0 0 4
, 1 (1)			1,089175	.6520	1091.	m m	1:OPRITER FUSELAGE	. 0000	:.3193						1.3:99	6523	ស្សាក្សា។ ស្លាក់ ស្លាក់ ស្លាក់ ស្លាក់ ស្លាក់ ស្លាក់ ស្លាក់	
DATE 10 FEB		ALPHA (2)	SECTION	X,:B	PHI 155.000 150.000	A_FHA (3)	3767:33	αı ×	100	ည်း			50.00 51.00	ព្ធព្ធព្ធ ព្រះព្រះ ស្រួក្រពុ ស្រួក្រពុ	10	B : : 3	000000 000000 000000 1000000	3/10/00/00 3/10/00/00 3/10/00/00/00 4/10/00/00/00/00/00/00/00/00/00/00/00/00/

RN/L

600.53

O

• 1.1009

.171 MACH

BETA (2) =

3.933

ALPHA 33 #

(XE8954) 707.91

FUSELAGE
ORB
-140A/B/C/R
11-073(0A148)
AMES

	5740	0001			3.1959	.5740	8 000.
	0.4970	0552 0741 1000 0892 0505 0505			•	0794.	5160 5160 5160 5160 5630
	.3780	032: 024: 2053 2169: 169: 168:			T/Sa	.378C	. 0526 . 0526 . 0526 . 1867 . 1868
	.3010	0330 0555 2657 6005 4650 3524			767.9:	3010	0275 0740 2810 3317
	8. 5.	.0186 0139 4076 3807 6747 5709			•	.2510	. 0253 - 0253 - 4232 - 4502
	. 2040	.0330 .0330 .0330 .0333 .0333 .0343 .1106 .1106 .1106 .1106 .1106 .12105 .12493	1.0460	111.	.53	. 2040	.0448 .0280 .5214 0057 0258 1377
i	. 1770	8554 8054 3	1.0180	. 2139 . 2139	. 600	0771.	
	. 1660		0666	. 3420	O	. 1660	.0989 .0905 .1044 .0968 .1084 .1084
BLT: CP	. 1580	. 8835	.9600	9683 - 3408 - 0503 - 05	•	1580 .	
NT VARIABLE	.1120		.9210	- 1509 - 1191 - 0374 - 0802 - 2227 - 2749 - 1960 - 1434	ŗ	1. VARIABL	.0532 .0957 .1334 .1539 .3680
DEPENDENT	.0700	. 1768 . 1420 . 1420 . 2433 . 2429 . 2429 . 252	.8790	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		DEPENDEN . 0733	
	.0460	######################################	.8210	######################################	<i>*</i>	. 3463	
AGE	.0230	*************************************	0677.		स्ति -व	. 0830	**************************************
1 10981 TER FUSELAGE	. 0080	.6887 .7:16	. 1890	7 24	en T	F FUSELA.	ញ្ញ ញ ញ ញ ញ
116601:	ecec.	2 235	.6523		vi		(f) (r)
1 1401 a DBS	97/X		tå: 3 3		••1	ii Capa	

90

2...

(XE8854)

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

.0178 .5740 5740 .4970 .0365 .×970 -.0412 -. P.15 - 0550 Z .3780 .037 .378C -.2459 -.2200 - P±67 107.91 -.3491 .3010 .3010 .0329 -.3586 -. 3833 -.57:6 . 5 5 5 -.6500 . 0185 .0653 -.6386 -.5596 -.3757 -.6695 .2040 .2040 1.0460 .080. 600.53 1.0180 .1770 .3730 1730 0666. . 1660 . 1660 .6401 .7471 .7591 O . .8378 .9600 . 1580 .1580 **1.1009** DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP . 1120 -. 1580 -. 1636 -. 1034 -. 2289 .3820 .4355 .9210 .1120 BETA (1) = -3.871 MACH .0700 ..0347 -.0351 -.1525 -.2387 -.1455 -.1455 .3368 .8790 .2816 .0700 4.232 .0266 .0457 .1223 .0333 .0028 .2895 .8854 .0460 .8210 .3603 . 3463 ¥804. .3891 BETA (3) .4818 . 3233 .0230 .5013 .7790 CELTION (110991TER FUSELAGE SECTION C 110RBITER FUSELAGE .0330 -.2181 .0021 E7E0. .0390 .7290 . 1683 .6982 7.906 M.94M . ၁၀၁၁ .1532 .1673 -.0403 :.3119 .6520 .0617 .0559 .0534 .0721 .0593 A. PHA (3) = ALPHA (4)

3327

1 (1)

.9510

.0048

.0621

.0371

.0668

-.2262 -.1957 -.272

-.1328 -.2026 -.5549

-.1206 -.1649 -.5131

-.2746 -.3177 -.3326

1656 2852 2852 2982 3121 3573

. 19433

1.2865

- 1055

-. 2526.

-.5859

-. 7296 .5065

-.236: -.5065 -.6796 -.6017

-.0796

.8573

.7876

(XE8854)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

-3.871

BETA (1) =

7.906

5740 5740 .0335 400 .4970 - 1880. -.2091 -.1785 -.1501 £970 .0108 -.0107 -.0726 であっ -. P.17 3780 -.2200 .3760 .0386 .0315 -. 1973 -. 2654 -. 3438 -.2110 -.2058 -.2011 16.707 .3010 -. 3957 .3010 .0123 -.2049 -.2438 -.5754 -.4026 .0391 -.3769 -.5287 . 8 8 8 -.6359 .2510 .0756 .0539 -.3238 - 3747 -.3981 -.7330 -.7065 -.6259 .2040 -.7034 1.0460 .1515 .2040 .1159 .1022 .1128 .0862 .0694 -.0053 -.5988 -.7323 1.0460 .2854 1378 600.53 .1770 1.0180 .4540 .2787 ::70 .4175 3.0180 .4614 2858 .9990 . 1660 .6963 -. 3338 -. 2420 . 1660 1486 1434 1656 1580 1618 1870 6915 .7495 9950 .7304 0 . 1580 .9600 -.1890 -.3138 .0749 .0346 MACH = 1.1009 . 1580 DEPENDENT VARIABLE CP 8528 -.1700 -.2737 DEPENDENT VARIABLE CP .9600 .1120 .9210 -.1101 -.0552 .0838 -.0114 .3700 .1120 2083 2083 2132 2301 2518 3398 -.0559 .3803 .9210 .0700 -.0065 -.0373 -.0030 -.0458 -.:050 . 240t .8790 .0700 .2619 .2400 .2758 .2701 .2338 .2558 .0004 . 2295 .8790 071. . 24B4 .0460 .3179 .8210 .0999 .1159 .0241 .0253 .1119 .4887 .0460 3693 3691 3691 3691 3406 3314 3243 3245 3082 .8210 01011 BETA (2) .0230 .3644 .7790 . 0230 4210 .3829 .7793 .8005. -219**6** SECTION (1) CRBITER FUSELAGE. SECTION (1) CHAITER FUSELAGE .0000. .5715 -.3235 .7290 . 2459 -.1953 .3112 -.0525 . 6683 .9+93 .6403 2573 .7290 3700 8.30s 0000. 1.2855 -.0107 -.0435 -.057; .6520 . 1583 1.2938 . 6663 6520 2535 2535 . 2938 FH1 160.000 X:1:B X/Li

- 04148 (AMES 11-073-1) TABULATED PRESSURE DATA

(AEDDEN)							
JSELAGE			. 9990				
AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE			. 999C	Ç.	1. 2459 1. 2450		•
-140A/B/(BLE CP	. 9600		2756 2764 2702	e . 4245	
310A14B)		DEPENDENT VARIABLE CP	.9210	.0197 1016 2309	3147	1469	BETA (3) = 150 MACH = (5) MICH
12 11-07	.170	DEPENDE	.8790	0660 1471 2349	2678 1733 :092	.0870	בר המו
13. K			.8210	.0171 .0143 .0623	.3495 .5259	.5385	:t
	BETA (2) =	AGE	0677.	3921 2182 .0233	.1335 .1727 .2426		TA (3)
	8.006 B	ER FUSELAGE	.7290	3395 2285	1066	0052	
	11	1109817ER	.6523	1091 0593	1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	= 8.008
	(+) + Hunte	1011038	ui ×	100 100 100 100 100 100 100 100 100 100			ALFRA - 41

.0138 0126 4970 -. 0319 -.1790 -.1514 -.0885 . DD74 -.0512 -. [528 話さー .37E 8343. -. 0093 . 287: - 317: - 243: -. 1938 -. 1965 -. **22**03 107.91 3010 -.2760 -.3107 -.6262 .0373 -.0195 -. 388t--. 3955 \$35.E. .85 . 0222 -.3627 -.4263 -.4585 .0714 -.7251 -.6652 -.6324 . 1115 . 0809 . 0809 . 0705 . 0769 . 1769 . 3108 -.6053 -.7163 1.0463 600.53 .1770 .3275 .3816 1.0180 . 4552 .1650 .1456 .1331 .1435 .1077 .1140 .1341 6203 .9990 7154 7557. O . 1580 .7973 - . 1844 - . 2542 - . 1868 - . : 739 .9500 DEPENDENT VARIABLE CP .1120 .1390 .1657 .1440 .1648 .1938 -.0892 -.1137 -.1230 -2714 3815 .9210 .3707 4.224 MACH .0700 .2517 .2126 .2206 .1779 .1413 .1351 4.000 - 1.000 .1916 -2312 . 3460 .3357 .3357 .3154 .2552 .2359 .2359 .2949 .3220 8213 .0230 .5033 1.603 .38:7 .7793 110981TER FUSELAGE .0383 .9348 £664. 5357 . 25.55 .7290 1.2783 1.2783 .6550 SECTION October 1 A. F. P. P. x//:@ i G m) À

-.4046

- .5032 - .36.18 - .36.18

-.3379 -.25.59 -.1310

1.24. 1.44. 1.44.

5.14. 6.44. 6.44.

-.0793 -.0013

EN COOK

PAGE 826	(XE8854)					* 708.13 RN/L * 3.1832		.3010 .3780 .4970 .5740	.1094 . 1152 . 0928 . 1889	.1158 .1380 .0934 .2359	111111862337 146218612795	719:	681628821365	551924671002	425719500563			
						۵.		.2510	.1267	.1392	2323	3435	7788	7320	6778			
				1.0460		600.31		.2040	. 1845	2074	. 1559 1094	.0181	2139	6522	7441	1.0460	.3128 .1651	
-	USELAGE			1.0180		- 600		.1770					11724	4819		1.0180	.3419	
AMES 11-073-1	YR ORB F			9990		0		.1660	.2035	. 2555 2555 2555 2555 2555	. 2489 2489	.3981	.7524	.7585	.6610	J366*		1.3245 1.3245
	-140A/B/C/R ORB FUSELAGE		XE CP	.9600	4944·-	1.1005	ורב כם	.1580							+608.	.9600	1345 2233 0688 1638	2:60 2265 2755 4293
- 0A148 C	OA148) .		IT VARIABLE	.9210	2494	MACH =	T VARIAE	.112	e u e	.3186	. 2892. 2892. 2831	. 2930	.3081		.3123	.9210	0583 0355 1742 2060	2474 1945 1917 0925
SSURE DATA	ES 11-073(0A148)	+52·	DEPENDENT	.8790	. 0202	3.854 MA	DEPENDENT VARIABLE	.0700	.3515	14097 70097	.3148	. 1836	. 1280		.1410	.8790	.0664 .0318 0592 0975	1893 1971 1339 .0953
PRE	AMES	<i>A</i>		.8210	.4902			.0460	0+9+.	1000 i	. 4333 . 4333 . 3890	6482.	.2215		.2251	.8210	.1602 .1828 0108 .0083	.1128 .5834 .4375 .5193
TABULATED		BETA (3)	30	0677.	.2546 .2546	BETA (1)	æ	. 0230	. 6345 0000	97.47. 97.47.	. 6322 .6322 .5716	#8##.	.3155		13. 40.	0677.	. 2636 . 2915 - 4663 - 3820	.0595 .0598 .0522 .1467
		9.009 BE	11 ORBITER FUSELAGE	.7290	5400.		R FUSELA	.0080	1.0548		.7123				. ¥229	.7290	.32+3	2343 1757 0377
3 76		a 8.0	1 1 ORBITE	.6520	.0979	₹ 11.922	1) ORBITE	.0000	1.2330						1.2330	.5520	.3175 .3474 1429 0691	1871 0575 -044 -0785
DATE 10 FEB		ALPHA (4)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	AJ/X	1Hd .000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	93.000 70.000 90.000	120,000 140,000	150.000	168.000 168.000 168.000	174.600	81/ x	2223 0000000000000000000000000000000000	00000000000000000000000000000000000000

(AMES 11-073-1)
TABULATED PRESSURE DATA - 0A148
92. 83.

		3.1832	İ	.5740	9771.	1864												3. 1832		.5740	. 1836	. 1692	
PAGE		W		.4970	. 1992	.0752	3189	. 2064	1.09+1	0448	é	US48								.4970	.0982	.0390	- 3543 - 2418 - 1474
	£	RN/L		.3780	.1176	.0971	- 1973 -		- 2409	- 1916 -		1773						RN/L		.378C	.1150	. 05че	274: 325c 358c
	(XE8824)	708.13		.3010	.1132	₩6.00		5607	- 5942 -	. 9944	į	· +604·-						708.13		.3010	.1147	.0338	2736 2939 6065
		•		.2510	.1388	.1018	3846		7738	6709		7310						•		9510	.1354	.0517	-,3270 -,4023 -,4613
				.2040	. 1905	.1789	1091		.4769	6370		7622	1.0460	.3156				600.31		.2040	1784	1227	.0701 0125 1427
•	FUSELAGE	= 600.31		0771.				•		4295			1.0180	.5290				• 600		.1770			
AMES 11-073-1	ORB B	ø		.1660	.2:26	. 2053 . 2214	. 1515 . 1645 . 1545	.3561	.6786		.7062	.6895	0666.			2974		o		.1660	5069	. 1702	. 1176 1176 1176 13054
(AMES 1	-140A/B/C/R	1.1005	E CP	.1580							7744	•	. 9500	1277			2580	1.1005	LE CP	.1580			
- 0A148 (-073(0A148) -1	u	r VARIABLE	.1120		.2514	.1957	.2917 7165.	.3143			. 3266	.9210		0986 2134 3247		2799	MACH =	IT VARIABLE	.::20		. 1928	. 1505 1505 1797 2684
PRESSURE DATA	=	.179 MACH	DEPENDENT	.0700	3536	3364	2067	. 1829	.1215			. 1385	.8790	7170.			1825	.239 MA	DEPENDENT	.0700	₹ ८ ₹₹.	3005.	. 1758 . 1141 . 0°5,0
	AMES	n	_	.0460	4730	4671	3791	. 2932 . 2395	.2256			.2020	.8210	. 1648	1485 0887 0104	2849		j H		.0463	.4678	. 3834	. 2059 . 2085 . 2074 . 1829
TABULATED		(S) (S)	Ы	.0230	מיני	.6483 .878	.5797 .5134	.3873	.3035			.2603	.7.90	. 2736 2000	4909 3887 1452	.0470	. 1667 . 1667 . 2678	BETA (3)	36	.0230	.6231	.6091	3.00 mg
		+1 BETA	7 FUSELAGE	.0080	י מנישט	•		.5689				£704.	.7290	.3306	4230 3645	1368	0931	38 900.	R FUSELAGE	.0380	1.0468		ESC+
76		146.11	1 1 ORB I TER	.0000	,	. 633						. 2394	.6520	.3144	1195 0546	3-62	. 0858 . 0858 . 0858	= ;2.0	: 10981TER	acoo .	1.2271		
DATE 13 FEB		A. PHA (5)	6:	X/LB		222	70.000	00.000	150.000	157.000 167.000	180.000	180.130	X/LB	1Hd	70.000 90.000 105.000	110.030	, and	ALP-A (5)	38.07.0%	x/Le	ind	20108 20108	

(XE8854)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

BETA (3) =

								1							
ALPHA (5) = 12.006	1 = 12.		BETA (3)		4.239										
SECTION	SECTION (1) OPBITER FUSELAGE	ER FUSCL	AGE		DCPENDE	DEPENDENT VARIABLE CP	BLE CP								
X/LB	. 0000	.0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	. 204g	8. 5.	.3010	3780	0764.	5740
PH1 140.000 150.000 151.000			.2767	. 2062	.0768	.2967		. 5974		2886 5891	7755	986+	1939	0600	!
165.000 155.000 159.000								.6872	.3655	6460	6939	4163	1755	0480	
180.030	1.2271	1772.	.2639	. 2336	.1230	.3141	160/	.6905		7616	6773	4328	1956	0529	
x/Le	.6520	.7290	.7790	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460					
I Hd															
, 030 , 030 , 030	.3199	. 3252	.2687	1556	.0543	0133	1379		. 5272	.3160					
าง.วาก การการการการการการการการการการการการการก	- :150	- tggt		1477	2110	+702	0785		. 2685	1161.					
100000000000000000000000000000000000000	5			306	5453	3733	1259	1							
	6+1+0	1070			3729	8964	5767	4066 4720							
	1029	0383	2417	. 4681	£653 1939	35č1 3328	390 3 3932								
Cod toet	418D.	0335	.2211	.5362	. J. 104	2888	4576								

TACULATED PRESSURE DATA - DAING (AMES 11-073-1)

773-1) PAGE 829 JRB FUSELAGE (XE8855) (05 AUG 75)

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PARAMEIRIC DATA AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE REFERENCE DATA

ראאקיני ואון טאוא	* -10.000 SPOBRK # 55.000 . 16.300 L-ELVN # .4.000 # .900	- 1057.8 RN/L - 3.5876		0472. 0194. 037E. 010E. 01	+106800316 .00320162	381264085603800440	0184 .0603	310512 .0438 .1013 051224 .0296 .0721	35 0642 . 0245	38 0260 . 0167 . 0442	33 0095 . 0089 . 0350						
	RUDDER BOFLAP R-ELYN	600.64 P		.2040 .2510	21581941	2495 42893888		230506581 23005805	1594 28108505	83237698	93877583	1.0460	1100	. 0214			
		• 600		.1770					,	.3893		1.0180	.3057	. 1232			
		o		. 1660	2164	2534	1936	0653	.6582	.7203	.6428	. 9990			3522		
		.90063	ABLE CP	.1580						;	. 828±	.9600		1231 0409 0940		1937	
	000 X X	MACH .	ENT VARIABLE	.1120	•			.1130	.4175		.4165	.9210				0712	
	.0000 IN.	-3.861	DEPENDENT	.0700		1 1	• •		.4038		.3937	.8790				0831	
	= 1076 = 3775	Ħ		.0450	=:	13	9.Ý.	.3095	.5012		.4682	.8210		3396 2004 2316 2316		4567	.5050
4	XMRP YMRP ZMRP	BETA (1)	LAGE	. 0230	0748	0468 .1496	.3379	• •	.642t		. 5833	.7790	E148		3057	3700	.3485 7257
HEFERENCE DATA	S. S	3.986	TER FUSEI	.0080	.3572			7317			.8413	.7290	:974	0202 .0251	1099	. 1456	011.
7	2000, 0695 1474, 1607 16080, 458		(1) ORBITER FUSELAGE	. 0000	1.1914						1.1914	.6520		2370 .0369 .0612	.0741	•	.0571
		ALPHA (1	SECTION	X/FB	Ŧ.							87/X	PH1 .000	0 0	11.080 180.080 180.080	3 0 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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	3.5876		.5740	0103	0136											3.5876		.5740	0170	.0083	
			.4970	.0106	0085.	.0860 .0783 .0526	.0439	.0456	.0470									0.4970	.0051	.0018	.0725 .0681 .0275
955)	B RN/L		.3780	0212	0375	.0452 .0328 .0125	.0217	. 0238	. 0240							EX.		.3780	0310	0135	.0439
(XE8855)	• 1057.8		.3010	0625	0749	0478 0957 1699	0464	0172	0009							= 1057.8		.3010	0697	0514	0788 1804 2416
	۵		85.0	1917	3492	7590 7260 6748	8408	7434	7353							a		.2510	1749	3195	8415 7526 8140
	600.64		OĐÔN.	2179	2558	4511 4511	4456	8422	9483	1.0460	. 1099	5710.						.2040	2361	3053	
FUSELAGE	= 60(.1770					.3116 .3116		1.0180	.3144	. 1549				= 600.64		0771.	• •	, ,	, , ,
	ø		.1660	2098	8359 3020 8529	1747 1683 .0640	.5770	.6860	.6750	0666.			3687			O		. 1660	2096	2628	2345 2529 0633
-140A/B/C/R ORB	.90063	RE CP	.1580					į	÷ 10.	.9600	0231	1179 0854 1359 1870		2652 3197		.90063	E CP	.1580	• •	• •	
	MACH =	NT VARIABLE	.1120	i i	2090 2090 2090	0172 .0127 .8320	.3709		.4222	.9210		2505 .0036 0733 1352		1811 1552		# #	T VARIABLE	.:120	-, 2093	1959 1594	0838 0808 1218
AMES 11-073(0A148)	. 179 M	DEPENDENT	.0700	1673	1967	. 1039 . 1039 . 2242	3575		.3970	.8790		3746 0340 1215 2404	4479			.262 MACH	DEPENDENT	.070			6557 00.12 - 1050
AME	#		.0460	٠,٠	1068 1068	.1075 .1856 .3471	.4581		0174.	.8210	350	.3324 .1315 .1501 .1558	.2391	וחו	. 5509	#	-	.0460	# 0	. 1314	. 0610 . 0610 .2318
	BETA (2	AGE	. 0230	0627	1046	.3+96 .4262 .5305	.5860		.5920	.7790	2335	- 669 - 0446 - 1089 - 1659	2336	3330	.3438	BETA (3)	GE	.0230	+ m	MI Ch	0000 0000 0000 0000
		R FUSEL	.0080	.3610		.5841			.8321	.7290	1961	0353	. 0839	90+1.	1. 1. 1.		FUSELAGE	. 3389	. च्युंस		. 4251
	= -3.902	1) ORBITER FUSELAGE	. 0000	1.1963					1.1963	.6520	230	. 0855 . 0855 . 0475	. 0659	.0807	3	= -3.962	110981169	00001	001		
	ALPHA (1)	SECTION (X/LB	PH1 .000 .20,000	55.000	70.000 90.000 120.000 140.000	150,000	16%-000 16%-000 189-000 17%-000	180.000	X/LB		70 BB 1	100	0.00	ינו היינו	f der	SECTION C	or: J		ភព ភព្វា វេទាព	

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1) DEPENDENT VARIABLE CP <u>~</u> BETA SECTION (1) ORBITER FUSELAGE -3.962 A_PHA (1)

5740 .4970 .0196 .0279 .0305 3780 -.0015 .0058 -.0067 .3010 -.0374 -.0060 -.0067 . 0187. -.7585 -.7609 -.8587 -.8833 -.8587 . 2040 -.9450 1.0460 .1770 . 1173 .1729 1.0180 . 1660 4798 .6348 .6625 .9990 -.3508 .1580 -.0252 -.0909 -.1080 -.1731 .7559 .9600 .1120 .3066 4119 -.1968 -.2277 -.0485 -.1272 -.1783 .9210 .0700 -.3484 -.3840 -.1482 -.2468 .2974 .3860 .8790 -.6305 -.4634 -.3282 -.1059 .0460 .4058 .8210 .4666 -.3376 -.3280 .0596 .0790 .1009 .3748 .5339 .5273 .0230 .5153 .5897 .7790 -.2327 -.2188 -.0009 .0641 .1595 .2573 .2315 .3050 .0380 -.1916 -.0485 -.0054 .8085 .7290 .0515 .1123 .141. .0000 .6520 PHI 140.000 150.000 151.000 162.000 165.000 174.000 .000 73.000 105.000 1105.000 125.000 125.000 125.000 125.000 125.000 125.000 125.000 ×/.'B ä

.5740 0239 .0277 .4970 . 0262 9600 0539 0535 0130 .0167 N Z .3780 -. 0202 -.0306 .0202 .0150 1710. 1059.5 .3010 -.0721 -.0828 -.1251 -.2348 -.0812 -.2449 .2510 -.6514 -.6398 -.6039 -.2761 -.9799 -. 1744 .2040 -.1664 -.1933 -.2439 -.1987 -.2591 -.2562 -.2647 .1770 .3453 . 1660 -.2143 -.0905 -.0368 -.0134 O .1580 .89883 DEPENDENT VARIABLE CP MACH -.1586 -.1180 .0140 .1061 .1437 . 1120 .3429 .0700 .30+0 -3.874 .0460 0+03 2053 2054 2054 2054 2054 BETA (1) .0721 .0119 .0216 .4315 .4988 .5443 .0230 5333 SECTION 1 1 DEBITER FUSELAGE .0030 5. 5. 5. 7186 . gang 1.2541 ALPHA (2) H 1/X

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AMES 11-073(04148) -1404/B/C/R ORB FUSELAGE

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		.5740					3.5834		.5740	.0341	.0487						
		.4970	.00SE				•		.4970	.0317	. 0209	.0377	. 021:	.6213	. 02:3		
		.3780	.0133				RN/L		.3780	+600∵	.0063	.0107	. 3249	.0278	. 0230		
		.3010	0616				1059.5		.3010	0718 -	0530 -	0894 1187 2004	. 1536	5850	. 04 IS		
		.2510	8578				.		.2510	1748	2718 -	7242 7086 6808	9439 -	8596 -	8748 -		
		.2040	-1.0521	1.0460	.1019		599.16		. 2040	. 1634	- 215. - 22.0.		4901	9150	9345	1.0460	.0995 .0137
		0771.	·	1.0180	. 1841		= 596		.1770				č	7175.		1.0190	.3134 .1826
		. 1660	.5876	0666.		2737	o		.1660	1551	1903	1110	.5463	.6450	.6274	.9990	
	BLE CP	.1580		.9600	0248 1502 0335 0876	1569 1740 2100 3091	. 89883	PLE CP	.1580						.7701	.9500	0217
	DEPENDENT VARIABLE	.1120	.3358	.9210	2266 2632 .0690 0075	1486 1158 1091	MACH =	IT VARTABLE	.1120	47	1081	.0301 .0575 .4715	.3094		.3472	.9210	2243
.878 4.	DEPENDE	.0700	.2860	.8790	3509 3084 .0411 0165	2573 2196 1689	.167 m	DEPENDENT	.0700			000000000000000000000000000000000000000	:075.		¥765.	.8790	- 3252 2522
# -3		.0460	.3663	.8210	2551 2505 1850 2574 2546	.3759 .3759 .3113			.0460			2000 2000 2000 2000 2000	669£		.3724	. 8210	1.2664 1.24.75
BETA (1)	AGE	. 0230	.4635	.7790	1470 1278 .0288 .0948	2581 3299 3222 2938 2752	BETA (2)	GE	. 0233	782 0.00	M (1)		1873		60 13 3	3541	10 (0) 10 (2) 21 (0)
.07t	ER FUSEL	0000.	9417.	.7290	0761 1791 1096	.0015 4970.	38 OBO	1109BITER FUSELAGE	.0080	.5207		.5733			1. 100	C 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	m f:- k:i
- , n	1) 0881 T	.0000	1.2041	.6520	0307 0981 0586 0586	0446 0012 .0024 .0036		13CRBITE	0000	1.2191					()	.0580	e to time to the
ALPHA (2)	SECTION (1) ORBITER FUSELAGE	87/X	PH1 180.000	X/LB	PH1 25.000		41, Fut (2)	SECTION :	m k	1 33			111			*. -! -!-	

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					3.5834		.5740	.0214	. 0562								
					•		.4970	.02g	.0216	0367	1010.	.0110	.0056				
					5 FN/L		.3780	0209	0001	.0081	.0157	.0131	.0133				
					1059.5		.3010	0752	0474	0854	1310	0599	0589				
					Q.		8510	1783	2618	7787 7860 7825		£+98	÷.873+				
		1.0460			599.16		.2040	1682	2088	3315 4915 5505	7560	8761	-1.0597	1.0460	.0915		
		1.0180			# 599		.1770					1822	•	1.0180	.2898 .1653		
		0666·	!	3357 2806	ø		. 1660	1562	. 1734	1793 1867 0209	.4558	. 5919	.6105	. 9990			3410 2938
	BLE CP	. 9600	0766 1255 1757	2300 2348 2705 3070	. 89883	LE CP	.1580						. /102	.9600	1009	1030 1643 2080	
	CEPENDENT VARIABLE	.9210	.0048 0673 1281	2031 2031 2077 2031	MACH ==	IT VARIABLE	.1120	1	1097	0352 0277 .1274	.2518		.3321	.9210		0473 1287 1773	1 . 2595 1 . 1 . 2595 1 . 1 . 2 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3
.167	CEPENDE	.8790	0507 1380 2416	4007 3251 2607 0676	.244 MA	DEPENDENT	.0700	0895		0256 0129	.2176		.2875	.8790		- 1283- - 7834- - 4460	6321 5148
•		.8210	.1078 .1256 .1506	.2562 .4047 .4501	÷ u		.0460		0303	. 20875 20875 20875	.3196		.3546	.8210		. 0407 . 0539 . 0539	
BETA (2)	ų S	0677.	0212 .0487 .1165	.1906 .2591 .2629 .2629	TA (3)	æ	. 0230			.3065 .3798	.4275		470g	.7790	C) () ()	. 1000. 1000. 1070.	
38 DBC	R FUSELA	. 7290	1894 1182	.0032 .0747 .0669	067 BETA	PUSELA	. 0080	5,045		\$ 11 \$.			.6818	.7293	.6754	7 M	. c:3:
	11ORBITER FUSELAGE	.6520	1099	0206 .0152 .0110	30. =	110ABITER FUSELAGE	. 0000	9561.1					.:956	.6520	1.0268 1.0268 1.0268	2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	. 2354
ALDAR 2	3,0110,0	xvra	8808 8808 8808 8808 8808 8808 8808 880	្តិក្រុក្ស ភូមិក្រុក្ស ភូមិក្រុក្ស ភូមិក្រុក្ស ភូមិក្រុក្ស ភូមិក្រុក្ស	ALPHA (2)	SECTION ()	#\∵a		ກຸຍ ເວົ້າ ເກີຍ ເກີຍ ເກີຍ ເກີຍ ເກີຍ ເກີຍ ເກີຍ ເກີຍ		9 0 0 0 0 0 0 1 4 0 1 4 0			m ≻	000 000 000 000	1000 1000 1000 1000 1000	(1) 1 (1) (2) (1) (2) (1) (2) (1) (1) (2) (3) (1) (1) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4)

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

SECTION (SECTION (1) ORBITER FUSELAGE	R FUSELA	JOE 10E		DEPENDE	DEPENDENT VARIABLE CP	PLE CP								
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	.9600	3666.	1.0180	1.0460					
PH1 165.000 180.000	. 0017 6100.	. 0882	.2833	.4256	1671	3785	3043								
ALPHA (3)	3.346		BETA (1)	Ħ	-3.879 M	MACH =	.89970	σ	- 595	599.92	<u> </u>	= 1058.7	PRV/L		3.5850
SECTION (1)ORBITER FUSELAGE	1 : ORB1 TE	P FUSELA	ig:		DEPENDEN	DEPENDENT VARIABLE	PLE CP								
X/LB	. 600	.0000	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	3740
PH1 . 900 ≥0.000	1.195:	. 6656	8215. 7077			9090		0871		1042	1297	0635	6200.	.0673	.0793
000 D			. F153		.0672	00.5		. 0902		- 1366	1621	0416	.0218	. 0593	.1027
73 .8. 6. 7. 7. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.		÷389·	100 magna	2000 2000 1800 1880 1880		. 1516 1. 1616 1. 1679		. 0019 . 0019 . 2529 . 2067			5690 6188 6125	1531 2163 3554	0239 0279 0936	.0268	
7 (C)			4169	0662.	.2117	.2745		.6056		3476 4501	9963		7010.	0181	
O CO								.6355	3054	9569	7791	4:08	. 0383	0099	
	(i) (i)	6. 0. 1.	0.76	95.35	356.	.2672	144.	.5391	ı	-1.0903	9150	2474	. C+25	0623	
er.	C. G. G. G. S.	ָרָה נה ניי	b.	C. Q (B)	3 0790	ਹੈ। ਜ <u>ੁੰ</u> ਦਾ	9888.	0566	1.0180	1.0460					
		16. 6. 1		to constant	OF CONTRACT OF STATE	# # # # # # # # # # # # # # # # # # #	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		. 3522	. 1185 . 0551					
	•				Charles for con- for con- for con- to-	(1) \$1 (A) y (3) (0) PS p3 (3) (5) (5)		1085. 1085.							

835		3.5860		.5740	. 0869	. 1138								1. 5.05.0		.5740	.0781	1069
PAGE				.4970	.0683	.0565	.0103	5400.	.0056	.0108				a		0.4970	.0653	.0481 .0039 .0083
	(XEBB55)	7 RN/L		.3780	.0107	. 0235	0322 0249 0171	. 0424	.0386	.0362				2		3780	. 0500.	. 0369 0359
	B3XJ	• 1058.		.3010	0525	0424	1552 1621 2806	3738	2116	1441				1058.7		.3010	0641	0806 1417 1630
		۵		.2510	1283	1874	5599 7152 6953	-1.0348	9396	9124				•		.2510	1298	2158 7234 7884 7751
		Ų Ľ		.2040	1016	1318	1992 3060 3801	5042	9734	-1.0138	1.0460	. 1116 . 0232		8		.2040	-	1.0001 1.0001 1.00001 1.0001
-	FUSELAC	* 59.		.1770				. 1889	, ,	•	1.0180	. 3451 . 2177		599		0771.		
1-5/0-11	ORB B	o		. 1660	0831	0885	0678 0583 .1224	.5191	.6065	.5811	.9990		3277 2656	0		.1660	0889	1.1309 1.1309 1.1309 1.1309
C 3 - 4 - 5 - 6	-140A/B/C/R	07068.	BLE CP	. 1580					e C	. ve3i	.9600	0192 1207 0659 1197	2147 2340 7673 2845	0.689	E CP	. 1580	• •	
	11-073(CA14B)	- HOVE	NT VARIABLE	.1120	0672	0124	. 0618 . 0823 . 2024	7152.		.2781	.9210	2394 2885 0110 0692	2309 2133 2312 2233	3	T VARIABLE	. 1120	*.0554	
, ,	S 11-073	.176 M	DEPENDENT	.0700	.0184	4660.	. 1913 . 1005 . 1519	. 1833		.2017	.8790	236 2307 0394 1308	-,4337 -,3195 -,7762 -,1114	235 MACH	CEPENDENT	.9790		2000 2000 2000 2000
	AMES	•		.0460	00	mmi	202. 202.	.2793		.2757	.8210	2791 7071 7090. 8090.	\$000 \$000 \$000 \$000 \$000 \$000 \$000	•	•	C 1970 .		រ ហ្គុល ភ ៥. ១ ល ល ល ប ១ ល ប ប ប
		BETA (?	AGE	.0230	. 2193 545 6435	. 3927	.4128 .4128 .4173	.3890		.3590	.7790	2730 5720 5780 6018	5555 6415 6415 6415	î	30v	. 5230	6.00 6.00 7.00 7.00 7.00 7.00 7.00 7.00	
			ER FUSELAGE	. 0080	.6713		\$ \$. 5681	. 7293	.0075 4176 3165	1077 9076	.38 956	F.C.	0 0 0	5539.	.3765
	1	1	1:0491°ER	. 0200	1.2025					1.2025	. 6520	. 0597 . 0*72 1669	50 50 50 50 50 50 50 50 50 50 50 50 50 5	3.9	d3116d0:1	g 000 000	1.:BS4	
	•	9. 	2014033	x/18	_ 886 T - 66	385		18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	1989 1989 1989	ପ୍ର ପ୍ର	ם) . ל צ	10000000000000000000000000000000000000		#_F44 3	1 NO. 1 30	en d	ရုရှာလ ဂါရီက နှင့်နိုင်	0000 0000 0000 0000 0000 0000

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AMES 11-073104148) -1404/8/C/R ORB FUSELAGE

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		0.64	.0085	. 0028	- 00 to			
		.3780	0140.	.0311	0367			
		.3010	3230	2133	2338			
		.2510	1.0029	7643	9513			
		.2040	6743 -1.0040 -1.0029	9856	-1.1054	1.0460	.1072	
		.1770	0.50	. 1563	•	1.0180	. 3434 . 1921	
		. 1660	.4350	.5550	. 5649	0666.		2350 2792
	BLE CP	. 1580		e e	9699 .	. 9500	0244 0953 1604 2135	2799 2844 3:07 2947
	D. PENDENT VARIABLE CP	.1120	.2068		.2631	.9210	2417 2540 0475 1899	1.3035 1.2722 1.4453 4286
	DIPENDE	.0700	7772.		. 1852	.8793	-, 2:96 -, 2:363 -, 1:887 -, 1:665 -, 1:665	1.6138 1.621 1.621 1.630
		. 0460	. 2396		. 244B	3128∵	1.+ 607.0. 760.00. 1760.00.	. 35.73 . 35.73 . 35.73 . 5.73 . 5.73 . 7.73 . 7.73
	TO TO	.0230	.3308		. 3528	3977.		
;	73504 6	.0080			.5378	.7293	60 60 00 00 00 00 00 00 00 00 00 00 00 0	r w 0
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	SECTION (1.09817EP FUSELAGE	сь ж	P#1 140, 130 181, 030 181, 030 181, 030	1659 000 1631 033 174 033		Œ;		

(*) (*) (*) (*) (*) (*) (*) (*) (*) (*) (*) (*) (*) (*) (*) -.0190 .5067 (H) (1) (1) (1) - . 0542 -.0736 ម () មាយ ជំ មាយ ជំ មាយ ជំ - 53.5 Thursday,

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AMES 11-073(0A148) -140A/B/C/R ORB FJSELAGE

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TABULATED PRESSURE DATA - CA148 (AMES 11-073-;)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
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			0038	.011¢	1000				•			
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	110RB11	.0000			1.0930	.6520	20193	2193 - 4513 - 2440	<u>.</u>	2180	1567	1629
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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	

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		•		0.64.	0641	1486	. 1055	9000.	0186	-, 0392			
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PARAMETRIC	-10.000 16.300 4.000	2385.6		.3010	0968	1983	0040 0395 1652	1029	1266	1287			
•	RUDDER BDFLAP R-ELVN	.		.2510	1290	2735	1334 1620 1852	3107	2411	2276			
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⋖	XMRP YMRP ZMRP	BETA (1)	IGE	. 0230	2202	.0263	5745 . 5495 . 5295 . 6236	.5755		9144	1100	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
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9 2	FN/II		.3780	0576 -	.0312 .0127 0062	0215	0259	0339				PR/L		.3780	0534	0731 0062 0118	0352
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	98.		.2040	1386 1674 2666	1972 1888 2668 2448	4084 4084	9268	1.1463	1.0460	.0089		594.66		.2040	1347		3507
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11-073(0A148)	.856 MA	DEPENDENT	.0700	2058 2473 2622	0685 .0511 .1250 .2562	.3249		.3112	.8790	1802 2250 .0464 0242	2096 1618 1279 .0540	179 M	DEPENDENT	.0700	2002t	2353 1169 0365	1439
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AMES 11-073(0A148) -14: '8/C/R ORB FUSELAGE

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		.2510	2502	1914	1851				٥		.2510	1153	1291	- 2451 - 3014 - 3426	2482	2081
		.2040	3542	9269	-1.1278	1.0460	.0120		594.66		.2040	1.1402	1.1847	2901 4335 4497	4351	£846
		. 1770	6 7 80.	.0958		1.0180	.2465 .1211		- 53		0771.				1	0246 0246
		. 1660	.4113	.5220	.5113	.9990		2674	o		.1660	1639	2083	2331 2770 1929	. 2893	3854,
	OLE CP	.1580		į	.6784	.9600	0546 1104 0953 1508	2571 2389 2346 2815	.59674	RE CP	.1580					iii
	DEFENDENT VARIABLE	.1120	.2783		.3321	.9210	1723 1692 0879 0879	2520 1858 1988 2054	MACH =	IT VARIABLE	.1120		1997	986 986 100 100 100 100 100 100 100 100 100 10	.2035	
.179	DEFENDE	.0700	.283 .		. 3259	.8790	1829 6259 0012 0831	3111 2500 1937 0442	4.259 MA	DEPENDENT	9520	600 600 600 600 600 600 600 600 600 600	1.00 1.00 1.00 1.00 1.00	0003 0000 0000 0000 0000	.2169	
n		.0460	.3728		. 3938	.8210	2233 2335 039 159	.4571 .4740 .4910	p		.0463		. 0.16	0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0	or :::	
BETA (3)	IGE	. 0230	.4839		4064.	.7790	- 1651 - 1784 - 6693 - 6693	. 1581 . 2459 . 2635 . 2551	BETA (41	<u>ي</u> د	.0230			F. M. G.	in in	
	1109BITER FUSELAGE	.0080			. 7222	.7290	1371 0490 0344	4150. 1633.	352 BE	P FUSELA	.0593	 ខា ខា		in:		
-3.944	1109811E	.0000			1.0601	.6520	1074 1602 6219 0353	.0555 .0555 .0515	9.5- ≡	DORECTER FUSELACE	0000					
ALPHA (1)	SECTION (X/LB	PH1 150.000 150.000 151.000	: 52.000 165.000 169.000	190.000	e l√x	100000 100000 100000 10000 10000		ALPHA (1)	SECTION (Krte		ing in	1 (*	- (<u>-</u>)	

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-07310A1481 -140A/B/C/R ORB FUSELAGE

(XE8856)

.5740 57.0 -.0779 -.0324 . 4970 .001 .4970 -.0591 -.0430 .0304 .0150 - 3632 -.0495 - 0459 3780 -.0136 -.0350 .3780 -.0304 -.0690 -.0769 -.0869 -. 1023 2385.6 .3010 -.0976 -.0949 -. 1475 .3010 -. 0925 -. 054B -. 1441 - 139 55.0 -.1936 -.2552 -.3199 -.3940 98. -.2318 -. 1345 -.2402 -. 1141 -.2707 .2040 1.0460 -.0016 -1.1263 - 1577 - 1540 - 1741 - 2524 - 3180 - 4917 - 5475 - 5143 .2040 -1.1522 -.9939 1.0460 594.66 .170 1.0180 .2185 .1248 .1770 -.2633 1.0180 .9990 . 1660 .4895 -.3159 -.2863 -.1797 -.1726 -.1894 -.2735 -.3333 .1660 .9990 .1452 . 3895 .3731 0 -.0548 -.0952 -.1070 -.1671 . 1580 .1530 .9600 .59574 .9600 DEPENDENT VARIABLE CP 1546. DEPENDENT VARIABLE CP . 1120 .9210 -.1666 -.1728 -.0390 -.1220 . 3222 .1120 2715 .9210 8.330 MACH -.1935 -.1862 -.2068 -.1819 -.2287 -.0435 -.1239 -.2609 .0709 .0700 .8790 .3124 .8790 .3813 .1026 .3265 .4772 .0460 .8210 -.1891 -.1919 -.1748 -.1570 -.1390 .4658 .0460 .2150 .8210 3 ETA (5) .0230 -.1686 -.1671 -.0235 -.0344 .4820 .7790 -.2021 -.2014 -.1231 -.0542 -.0029 -.0477 .0757 .1769 .2071 .2118 .0230 2863 4323 .7790 BETA SECTION : 110RBITER FUSELAGE SECTION (1) CPRITER FUSELAGE .0090 -.0754 .6943 .7290 .0030 -. 1349 .067¥ . 1385 -.0034 . 1000 6233 .7290 -3.952 -3.967 .0000 -.1112 -.1358 -.0356 .6520 1.0400 . 0238 . 0268 . 0269 .0000 -.0126 9685 9686 K.FHA (1) FH1 160.000 ā X/LB in to

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DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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BETA (5)

-3.967

ALPHA (1) =

						4.8906		5740	0260	0554							
						•		0764.	0210	0644	.0597	0559	0597	0657			
						RN/L		.3780	. 0523	.0796	.0324	.0777	0060.	.0891			
						2385.6		.3010	0737 -	- 9960	0210 0539 2143 -	1538 -	- 1659 -	1507 -			
						•		.2510	1035	1486	1295 1554 2225	3959	2880	2664			
	1.0460					595.74		3040	1237	2086	0979 1603 1739	2652 4647	-1.1072	-1.3406	1.0460	.0204 0179	
	1.0180					29		.1770				1881.		•	1.0180	. 1467	
	ენ66 -		3057			o		. 1660	1387	8272	.0033 .0203 .1751	.5163	.5146	.3008	0666.	;	2465 2465
BLE CP	.9600	1176 1729 2315	3648	3285	6//0	.59728	RE. CP	.1580						. 6550	.9600	0443 1199 1108 1593	1541 1857 1812
DEPENDENT VARIABLE	.9210	0590 1484 2143	4182	4063	. 5916	MACH	DEPENDENT VARIABLE.CP	.1120	1957	- 1640	. 1657 . 2849	.2610		.2128	.9210	1520 1467 0751 0122	11.1000
DEPENDE	.8790	0804 1659 3030	5499	1/64.1		-7.901 MA	DEPENDEN	.0700			. 2955 44. 2928	. 2522		. 1888	3678.		- 1441
	.8210	.0282 .0054 .0303	0.	. 4342 6434.	.3586	u		.0460		0455 1891	3504 3504 3504	.3191		.2453	.8210		80 m 64 m
J J	.7790	0611 0378 .0049	0115	.1065	. 1813	BETA (1)	GE	.0230	0653 0254	4202. 1202.	.5532 .5517 .5518	. +523		. 3235	790		WA WA
1) ORBITER FUSELAGE	. 7290	1030 0546	0639	0032	.0407	C82 BE	R FUSELA	0820.	.3155		.7359			.580;	. 7290	M 0101 01 0101 01 0101 01 0101	0131
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						۵		.2510	0859	1165	1780 2118	3459	2600	i i				
				1.0480		595,74		.2040	1039	1226	1 625 2368 - 2504	3340	-1.0954	1712	1.0450		0247	
	FUSELAGE			1.0180		*		.1770					.1157	•	0180		1560	
(AMES 11-073-1	ORB B			9990		o	ı	.1660	1227	1416 1770 0885	0674 0649	.4618	i	¥20°.	9990			3078 2491
	-140A/B/C/R		BLE CP	.9600	2776	.59728	3LE CP	. 1580						.6¥12	.9600	2020	1246 0680 1331 1854	
A - 0A148	(0A14B)		DEPENDENT VARIABLE	.9210	0553	MACH	IT VARTABLE	.1120	!	1553 1373 0290	.0747 .2180	.2512		.2390	.9210		. 0522 - 0522 - 0522	
ABULATED PRESSURE DATA	AMES 11-073(04148)	-7.90;	DEPENDE	.8790	.1166	-3.873 M	DEPENDENT	.0700	1166	1104	. 1342 . 1342 . 2151	.2375		.2153	.8790	1.00		2335 1893 1893
TEO PRES	AME			.8210	. 2481	-3		.0460		0446	. 2351 . 3184	.3151		.2812	.8210		- 2008 1519 1772 25574	.3797 .33:5 .3:93 .3528
TABULA		BETA (1	AGE	.7790	. 1 812 . 1398	BETA (2)	39	. 0230		.3174		.4322		.3568	.7790	63	1326 .0161 .0690 .1167	.2037 .2576 .2538 .25159 .2096
		082 B	110PBITER FUSELAGE	. 7290	0600.	18 £60	110RBITER FUSELAGE	. 0080	.3570		.6070		•	.5986	.7290	0781	1008	.0718 .0718
37 บ			1.1098178	.6520	0350			0000.	:.0735					1.0735	.6520		- 1090 - 1090 - 5597	0333 .0029 .0022
DATE 10 FEB		ALPHA (2)	SECTION (X/LB	РН1 165.000 180.000	ALPHA (2)	SECTION (X/LB	PH1 .038 20.050	40.000	900000 10000000000000000000000000000000	150.000	167, 630 195, 030 169, 888	174.000 180.000	x/18		70.000 90.000 95.000	18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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PAGE		u		.4970	0037 0212 .0088 .0066	0110	0082			*		1970	0097 0135 0026 0039 0291
	956)	5 RRV.		.3780	0240 0245 0330 0448	0453	0424			FN/L		.3780	0198 0365 0408 0543
	(XE8856)	* 2385.6		.3010	0495 0391 0927 1123	1213	1111			2385.6		.3010	0571 0354 1076 1312 2583
		۵.		.2510	0803 0955 2226 2555	3060	2293			• a		.2510	0868 0921 2470 2827 3369
		5.74		.2040	0992 1175 1754 3228 3539	4123 5655 -1.0745	-1.2914	1.0460	. 0449	595.74		.2040	1.1185 1.1185 1.2082 1.2668 1.3939
	FUSELAGE	= 595,		.1770		0111	·	1.0180	. 1393	* 595		0771.	
11-073-1	ORB	ø		. 1660	1182 1291 1515 1374 1395 1482	.3681	9555	0666.	2583	o		. 1660	1,1229 1,1274 1,1747 1,1984 1,2265 1,1506
B (AMES	-140A/B/C/R	. 59728	BLE CP	.1580			.6225	.9600	0457 1063 1555 2033 2390 2418 2397	.59728	LE CP	.1580	
A - 0A148	-073(0A148)	MACH =	UT VARTABLE	.1120	1453 1161 0769 0741 0175	.2157	£642.	.9210	1576 1556 0135 0938 1533 2352 2519 2188	MACH	T VARIABLE	. 1 : 20	1.1503 1.1574 1.0655 1.0995 1.0995
SURE DATA		.179 M.	DEPENDENT	.0700	1196 1314 0149 .0125 .0387	. 1960	.218 ⁴	.8793	. 1578 . 2069 . 0129 . 1874 . 2354 . 2357 . 2357 . 0878	.242 MA	CEPENOENT	0010.	######################################
TED PRESSURE	AMES	# ~		.0460	- 0710 - 0540 - 05450 - 0450 - 0450 - 1231	2 462.	. 2925	.8210	. 1851 - 1957 - 1957 - 1050 - 1308 - 1308 - 1378 - 1378 - 1378	j II		29-0.	
TABULATED		BETA (3	AGE	.0230	0256 0102 .1250 .2730 .3154	.3976	. 3738	.7790	11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	ナレーゼ	धु	O M M M U	
		C95 BI	ER FUSELAGE	. 0080	3595.		.5930	.7290		36 36	ti D	G G G	B
ត ភ			1) ORBITER	.0000	1.0832		1.0932	.6520		۵ دغ	(I)	t ;	ນ ເມ
DATE 10 FEB		ALPHA (2)	SECTION (X/LB	PH	2	170.000	© 17 ×				ıı 1 0 √	non. 100 1017 00 1017 00 1017 100 1017 100

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TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

(XEBB36)

5740 .4970 -.0237 -. 0253 .3780 -.0566 -.0571 -.0578 .3010 -.1310 -. 1335 -. 1267 . 85 10 -.2865 -.2451 -.2402 .2040 -.4752 -.6195 -1.0802 -1.2866 1.0460 595.74 .1770 -. 1423 -. 0924 1.0180 .2404 .1191 . 1660 .9990 . 2628 .4033 .4175 .1580 .5627 .9600 .59728 DEPENDENT VARIABLE CP . 1120 .9210 .1547 . 24.155 8.298 MACH .0700 .1457 -.1657 -.6:27 -.0556 -.1422 -.4118 -.3745 -.3339 -.2005 .8790 .2131 .0460 -.1886 -.1853 -.0378 .0378 .1159 .3016 .3594 .8210 .2301 .2691 .3995 . BETA (4) BETA (5) .0230 -.0615 -.0079 .0340 .3158 .3623 .7790 SECTION 1:OPBITER FUSELAGE .0380 -. 1475 -. 0834 .7290 .0453 .0569 -.0778 -.0309 :.0615 .0000 -.0027 -.0003 -.0081 -.0803 -.0803 -.1330 -.0934 .6520 27.45.-A. DILA : 21

.5740 .0080 -. 034t .4970 -.0033 -.0051 -.0335 -.0213 -.0251 E F .3780 -.0450 -.0400 -. 0935 -. 0284 2385.6 .3010 -.0716 -.1174 -.1297 -.2840 -.0601 -.1562 -.1017 . 85.0 -.2666 -.3015 -.3657 -.1167 -.2936 . 2040 .1770 -.2906 -.2348 - . 2551 - . 2551 - . 2503 - . 2516 - . 2516 . 1660 . 1580 DEPENDENT VARIABLE CP .1120 - 1477 - 1536 - 1522 - 1352 - 1491 - 1588 - 0917 .0700 .0539 -.0926 -.1078 -.1075 -.1056 -.1081 .3460 .:473 -.0637 -.0637 -.0720 .0103 .0353 .0353 .0230 SECTION 1 11 CHBITTH FUSELAGE .0080 3159 . 5973 . 8338 16001 E ...

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(XE8855)

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BETA (5) =

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4.0HA (2) #

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SECTION (1.0RBITER FUSELAGE	1.0981	ER FUSEL.	AGE		DEPENDE	DEPENDENT VARIABLE CP	BLE CP								
81.5	.0000	.0380	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	0402.	.2510	3010	3780	0767	5740
PH1 180 000	1.009.1	8684.	.3173	.2174	. 1637	. 1946		.3233	•		1036			Ç	
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i i															
. 003 	0553	0905	1294	1983		1701	0601		.2520	0037					
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	3 RN/L		.3780		0148	. 0032	6000	0283	1650	1207		1.95	-, 105;			
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	Q.		.2510		0713	0495	- 1770	1705	2795	4755		3405	2929			
	595.02		.2040	į	00/00	1025	1.0439	1475	2129	5639 5639		-1.2765	-1.5034	1.0460		.0204
	# 55		.1770								. 1871 1780.	•	•	1.0180		. 1732
	σ		. 1660	1000	- 1040	0964	.0326	10.0	. 대원	.4668		+124.	.23!4	0666.		
	.59696	BLE CP	.1580										. 6097	.9600		-,0319 -,1053
	#ACH #	DEPENDENT VARIABLE CP	.1120		1108	0302	ន្លែ	1726	. 2205	. 1850			.:352	.9210	;	1403
	F 41671-	DEPENDE	.3700	F.170.	0527	0149	. 25°59	נה נ נה נה	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0111.			.0731	.8793		- 1839 - 1839
0000	n		.0460	0078	.0235	7.10+7	ACCE.	5. kg	0	.2073			80.40	. 9210	į	- 1576
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	ø	:.C==::	()	1.0324									- 22. · ·	(1) (1) (1) (1)	ب د د	(A)
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TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

1.0180 1.0460 AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE ე666. -.2539 -.1595 -.2101 -.1942 -.2762 .9600 DEPENDENT VARIABLE CP .9210 -.1460 -.1375 -.1362 -.0727 .0513 -.1720 -.1933 -.2348 .8790 -7.914 .5347 .3867 .1287 .8210 .2450 .3886 .2055 .1418 .1939 .1898 .1512 .0233 .0757 .1056 .7790 BETA SECTION OF LIGHBILER FUSELAGE -.1234 -.0691 -.0760 -.0103 -.0117 4,038 -.1847 -.0389 -.0855 -.0801 -. 1937 p ALPHA (3) 73.622 105.622 105.623 110.000 1110.000 125.000 185.000 185.000 X/LB

5740 .0344 650 0794. .0339 .0230 .3780 -.0382 -.0472 -.1197 .0039 .0168 2385.3 .3010 -. 0269 -.0855 -.1150 -.2801 .0000 .8510 -.0544 -.0418 -.1909 -.2202 -.2990 .2040 595.02 .1770 . 1660 -.0712 -.0790 -.0747 -.0366 -.0432 -.0434 .59696 . 1580 DEPENDENT VARIABLE CP . 1120 -.0832 -.0268 .0419 .0769 .0876 -3.873 MACH .0700 -.0299 -.0408 -.0105 .0105 .1283 .1293 .0460 .0232 .0556 .0566 .2067 .2198 .2198 .2156 .2156 .2156 ω ~ . 0230 .1525 .1525 .311 .4131 .4189 BETA SECTION (1) ORBITER FUSELAGE .0080 5697 - 525g 4.041 .0000 1.0545 ALFHA (3) 7 A/Le

-. 2992 -.2685 .0207 -1.2354 -1.4466 1.0460 .0539 .1794 .1794 1.0183 .4201 5444. .9990 .3291 5912 .9600 .1653 .9213 .8790 . 1281 2056 .8210 . 1821 3399 .2365 .7790 -. 3255 14497 .7290 1.0645 .6520 Ω X

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-.1619

-.0709

-.1396

-.1910 -.2271 -.2:57 -.6315 -.1142 -.0585 -.1321 -.1823 -.1388 -.1295 -.0522 -.0522 -.2333 -.2372 -.74.3 1951.-1521.-1624.: 1777.: 5675. 3534 1.0751 1.0751 1.0357 1.0355 0.0345 1731 2222 22-47 - 1599 - 1093 9.50. -.0337 .0112 .0015 .7715 .1530 .1338 764.21-

(XEBB26)

(XEBB26)

AMES 11-073(CA148) -140A/B/C/R ORB FUSELAGE

-3.873

BETA (2) =

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ALPHA (3) =

			(B88)	j	2)	.0413	.3579								
			<i>A</i>		0£57		80.5	0257	0368 0416	0350 0350	:	2293	558			
			SNU		3760	•	. 6210	0182	C607	1	•	9576	- 8430			
			2385.3		3010	•	0166	. 6500.	1128	2 2		.14261	1294(
						•	_			•		•				
			۵.		.2510		1-0-1	0507	2304 2524 - 4189	- 3555		2765	2552			
	1.0460		595.02		.2040		0587	0901	2081 3033 3033	4616		-1.2041	-1.4216	1.0460	. 0302 	
	1.0180		•		0771.						0551	•	•	1.0180	. 1585	
	ე666.		ø		. 1660		0650	0702	1155 1236 0219	.3312		¥00¥.	.3803	0666.		2434 2434
ع د د	.9600	2698	. 59696	LE CP	.1580								. 5663	.9500	0287 0883 0845 1469 2059	2208 2358 2353 2557
DEPENDENT VARIARIE	.9210	1562	MACH .	DEPENDENT VARIABLE	.1120		-,0701	0347	.0063	.1556			. 1830	.9210		2283 . 2085 . 2306 .
DEPENDEN	.8790	0150	.178 MA	DEPENDEN	.0700		0270		1860 1860 1860				. 1287	.8790	1.088 1.084	2.089.7 2.089.0 2.089.0 3.089.
i	.8210	.2907	u		.0460				1189	. 1920			.1737	.8210	10 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
Jo	.7790	.1923	BETA (3)	띩	. 0230		.1174 .1392	2409 9092	.3048 .3048	.2795			2533	נפרר.	00000000000000000000000000000000000000	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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TABULATED PRESSURE DATA - 04148 (AMFG 11-072-:

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1) DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

5740 .0968 .1267 .4970 -. 1017 -. 0548 -. 0785 -. 2224 .4970 .0830 .0851 Ž -.0771 -.0934 -.2255 .3780 .3780 .0465 .0768 2385.7 .3010 -. 1814 .3010 .02:3 .0512 <u>8</u> -.3148 . 5 5 5 .0145 -.0054 .2040 -1.7247 .0053 - 0143 - 0134 - 0833 - 1424 - 2205 - 3280 - 4617 - 6801 1.0460 . 2040 .1770 1.0180 . 2997 . 1928 .1770 . 1660 .1720 -.0082 -.0091 -.0052 -.0326 -.0374 -.0374 9990 . 1660 -.0185 -.0888 -.0231 -.1049 -.1712 -.2402 -.2111 -.2756 .9600 . 59678 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP Ħ -.1647 -.1778 -.1574 -.0764 -.1117 -.0841 .0903 -.0003 .1120 .0675 .9210 .1120 .0702 .0702 .0814 .0889 .0854 = -3.872 MACH -.0385 -.1546 .1040 .0595 -.0098 .0700 -.2090 -.2497 -.2960 -.0782 .0130 .8790 .0700 0742 0716 1309 1760 1452 1354 -7.903-.0993 -.0976 .1986 .2485 .3535 -.0426 .8210 .0463 .0531 . 1208 .0460 .1351 .1699 .2266 .2671 .2408 .2190 BETA (1) = BETA (2) -.0244 -.0105 -.0029 -.0459 .0694 .1339 .1482 .1245 .0230 .0820 .7790 .0230 .2576 .3051 .4267 .4147 .4147 .3809 SECTION (1) ORBITER FUSELAGE SECTION (110RBITER FUSELAGE -.1857 .0080 .2743 .7290 .0350 .0080 -.1688 1.0451 -. 0254 .6806 .5159 9.017 8.004 -. 1465 -. 1145 -. 1104 .9858 .0739 .0891 -.2953 .0000 .6520 -. 3291 .0000 1.0241 ALPHA (4) R.FHA (4) PHI 180.000 X/LB X/LB K/LB <u>T</u>

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10 101130011 DATA - DATAS (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
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(XEBB56)

Tero:	SECTION CITORBITER FUSELAGE	-AGE		DEPENDE	DEPENDENT VARIABLE CP	BLE CP								
0000	.0083	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	2510	3010	77B0	02B*	7
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1201	.1077	.0428	0375	0540	0809	.0010		.3165	0.35.0					
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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

(XE8856) 1.0180 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE ე666: -.2926 -.2451 -.2148 -.2492 -.2411 9600 -.0697 -.1371 -.1951 DEPENDENT VARIABLE CP -.0063 -.0851 -.1398 -.2335 -.2383 -.2506 -.2553 .9210 -.0346 -.1019 -.1749 -.2840 -.3093 -.3038 -.1545 .8790 1870 3238 4843 .8213 .0433 .0740 .1174 4259 m -.1578 -.0553 .0204 .7790 .0827 .0557 .1586 .1327 BETA THE FOREITER FUSELAGE -.3524 -.2448 -.0739 .7290 -.0007 -.0956 12,055 -.1481 -.0345 -.0852 -.4994 0.550 -.2123 10 - THE 4

594.67 G 59670 DEPENDENT VARIABLE CP MACH 4.239 SECTION (1) ORBITER FUSELAGE 12.053 B . 3-57

.2510 .0549 -. 1025 .2040 .1770 .0598 .0319 -.0319 -.1842 -.1692 -.1768 . 1660 .1580 .1120 .0700 .1595 .1246 .0834 -.0340 -.0731 -.0541 .0460 .0230 3552 3572 3534 1852 1793 1093 .8383 .7956 . 0000 .9382 er;

.0644 .0180 -.1166 -.0758 -.0758 .0060 -.0728 -.0176 0109 . 1221

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- . 0554 - . 1324 - . 1732 - . 1732 - . 29+5 - . 0399 - . 03881 - . 03881 - . 03883 .035; .0765 .757; - . isia - 300: - 878: ង ពេលប៉ុន្តា មួយប្រជាព ក្រុមប្រជាព 1.367

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(XE8857) AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE AMES 11-073-1 1 CATE

PARAMETRIC DATA	RUDDCR = 10.000 SPCBRK = 55.000 BDFLAP = 16.300 L-ELVN = 4.000 R-ELVN = -4.000 MACH = 1.400	P = 441.59 RN/L • 2.8055		0472. 0724. 087E. 010E. 0125. 040S	520093022703570557	5516651456083509390631	189409460549	97 - 1674 - 1734 - 1984 - 1046 21 - 1043 - 3319 - 1246 - 1041	290316561061 -	502466162611650787	58 2821 1409 1220 0559		S. EE	
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	1076.6 375.0			.0460	.0831	.1315	1	.4895 .6119	.6403		.6001	.8210	0936 1038 .1972 .2010	23459 24199 2417. 2517.
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(XEBB57)	441.59		.3010	0114	1646	1833	1-57	1074				441.59		.3010	- 6410.	'	2233 - 2983 - 4538 -
	•		.2510	0001	2437	- 5996	2759	7765				٠		.2510	- 0035 -		2875 3031 2521
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RESSURE DATA		4.282	DEPENDENT	.0700	## # ·		.4857	.8790		. 0370 . 0370 0551		1834 1834 1834		.863 MACH	DEPENDENT	.0700	.0827	. 1591 . 2939	.3327 .3379 .3856	.3577	
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			IR FUSELAGE	. 0080			.9928	.7290		. 0124	.0463	.0265	. 0250	15 BETA	PUSELAGE	.0080	.8007		.9123		
2		-4.001	1) ORBITER	.0000			1.4536	.6520	0347	.0575	. 0265	0096	0197	015	1) ORBITER	. 0000	1.4831				
, ,		ALPHA (11	SECTION (X/LB	PH! 1+0.000 150.000 151.000	165.000 169.000 174.000	180.000	X/LB		90.000 105.000 110.000	135.000			ALPHA (2) :	SECTION ()	x/רB		55.030 55.030	90.030 120.000 140.000	150.000	165.000 169.000 174.000

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-3.863	DEPENDENT	.0700	3492	.8790	1993 1171 . 0552 . 0242	.0271 .0365 .0499 .4012	195 34	CEPENDENT	.0700	. 5925 1865		1025 1030 4050 1000	. 3365		.3579	.8790	ច្ចាញ់ ភូមិ ភូមិ ភូមិ ភូមិ ភូមិ ភូមិ ភូមិ ភូមិ
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	11CABITER	. 0000	1.4831	.6523	8000. 1000. 1000. 1000. 1000.	0179 0284 0287	(C) (I)	1,098175	0000.	i.4835					明的力	. 6530 0130	(f) (i) (*) (i) (*) (*)
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ID PRESSURE DATA - 04148 (AMES 11-073-1)

						2.9062		5740	0334	539							
						•		0784.	DZ77	5492	0517 0517 0562	CB5+	03-t2	0999			
6						Z.		3750	.6035	0093	- 1507 - 1850 - 1860	2005	- 100 C	1703			
TEBBST						441.36		.3310	.0219	0246	191: 2742 4537	2432	- 1863	- 5039			
						• •		.2510	.0028	0026	2595. 2695. 767.	35+2	3644	3390			
			1.0460			.59		0+02.	0163	1.010	5170. 5170. 5250. 5250.	1953	2:37	3171	1.0460	. 097 6 0	
FUSELAGE			1.0180			* 599		.1770					. 5354 . 6354	·	1.0183	.7391	
OAB B			ე666 .	i i	2337 2337	o		.1650	0157	9100.	1055 1516 1516 15047	.8195	.9458	9119.	.9590		2769
-140A/B/C/R		3LE CP	.9600	1261 1046 1429	2187 0755 0282 3051	1.3931	LE CP	.1590					8	82/5.	.9500	2037 1796 1615 1619	32.14
-073(0A148) ·		UT VARIABLE	.9210	0556 0543 1193	1503 0336 .0499 .1284	MACH #	IT VARIABLE	.1120	Ş	. 0203 . 0203 . 07.40	.0555 .0755 .4415	.3054		.3575	.9210	1.0800 1.0800 1.0800 1.0800 1.0800 1.0800	
•	. 195	DEPENDENT	.8793	.0223 0222 1228	.0035 .0781 .1136 .3344	4.262 MA	DEPENDENT	.0700	7763.	. 10 10 14 1	. 1567 . 1499 . 2865	1012.		STTO.	.8790	M 3 M N IS D C C C C C C C C C C C C C C C C C C	
AMES			.82:0	. 1000 . 1251	.1975 .3378 .3549	÷		.0460	15:6	1671	25.00 2.00 2.00 2.00 2.00 3.00 3.00 3.00 3	9284.		5149	.82:0	# # [465
		ige ige	0677.	1261 .0258 .1573	.2594 .2844 .3155 .3155	TA (3)	ĞĒ	.0230	.3265	+ 600 m	1584 1584 15712	.5890		.6171	2677.	Mary com mony to m concents concents	6
	02t BET.	P FUSELAGE	.7290	0957	.0270 .0240 .0182	16 BET.	R FUSELAGE	. 0090	.7852		.6221			.8523	.7290	N (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	£200.
	# C.	: 109BITE	.6523	25.00.00.00.00.00.00.00.00.00.00.00.00.00	B B B B B B B B B B B B B B B B B B B	# 0	110931TER	. 0320	1.+723					:720	.6523	6.00 0 H	e255.
	A 410_A	- 761 LOW	ei u / x	្តាល់ពី ស្រីសូស្តី ស្រីសូស្តី		4-6-5 (5)	1 2011016	m ×		i i i i i) () () ()	វិទីពិទី - (១១១ - (៤៣) - (៤៣) - (៤៣) - (៤៣)	9 C)	ay ×		5653

(YFRB57)		
140A/B/C/R ORB FUSELAGE		9. CP
14146)		Cr. 11.ABLE CP
AMES . 1.	i s	ñ
	(2)	
	BETA	FUSELACE
	.016	OLICA FU
	ALPHA (2) =	SECTION C DOMBITER F
		.01

				6.9093		0 ∤ /c.	.0160	.0319													
				• •	201	0/84.	.0214	. O1 : 2	0883	1491	1115		0927	1040							
					2002	. 3/80	.0486	.0417	0422	0925 2408	1859		1850	1001							
			144		4010	0105.	.0378	.0339		1063 -	3261		- 5775 -	- 26.19							
			١		בו בי		.0353	. 0562	1348		3930 -		3591 -	3818 -							
	0,0450		500 th		0402.	2	. 0356	.0190			. 1284		- 2465 -	3473 -		Į.	.1817				
	1.0180		*		0771.	•						27.75 27.50	•	•	1.0180		. 2428 . 2428				
	.9990		G	ı	. 1660		.0431	.0885	1561.	.5562	.9384		₩066.	.9124	0666				2759		
MABLE CP	. 2500	3336	1.3926	SLE CP	.15.30								i	0508.	.9600	1380	1309	-, 1399	8		0000
	3210	G.	٠ ج	JCHENDENT VARIABLE	.1120		.0788	1327	.2367	2996	. 2953			7475.	.9210	. 0838	0309		•	•	
Ŕ	••			JENJENDEN	.0700		. 1656	3466	3317	.3326	.2726			.2551	.8790			0638		- 3211	
	.821.	.3189			.0460		.2927	.3492	.4466 .4624	4707	6444.			S+1+.	.8210			9450.	<u>.</u>		
낽	.7790	.3051	BETA (1)	Je Je	. 0230		.4372	.6230 .6935	. 7009 . 7028	.6607	. 5699			. 4843	.7790		•	1684 1013	9761.	.2597	. מינים:
THORDINGE FUSELACE	.7290	. 0226	38 006	R FUSELA	.0090	į	1 1 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		.8735					.7614	.7290	.0465	.1518	.0950	.1052		M+00.
37 1870 (1	.6520	0178	3.9	1 ORBITER FUSELAGE	. 0000	٠) (1) (1)						•	1.4698	.5523	.0355	. 0497 -	1.000.1	+ 6000.	;	ָּתְי יייי ייייי ייייי
SECTION C	X/LB	PH1 165.000 180.000	ALPHA (3)	SECTION (X/LB	IH G	20.08 20.000	55.000 75.000	90.000	140.000	150,000 151,000	162,503 165,503	169.036 174.000	183.000	a v		20 20 20 20 20 20 20 20 20 20 20 20 20 2		30		-,

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.0233 之10. .4970 -.1096 -.0917 -.1034 .0264 .0134 -.0686 -.0592 -.0547 RY .3780 -.0975 .0583 -.1739 .0493 -. 1857 -. 1900 441.59 .3010 .0546 -.1025 -.2919 .0396 -.2531 -.2117 2510 -.1782 -.1877 -.1943 .0686 .0284 -. 3979 -.3972 -. 36.24 .0353 .0230 .0147 .1134 .1031 .1091 .0082 .2003 .2040 -.3861 -. 2443 .2989 1.0460 599.48 599.48 AMES 11-07310A148) -140A/8/C/R ORB FUSELAGE .1770 .6192 .6891 1.0180 .3363 . 1660 0471 0471 0740 1203 1227 2044 2044 8389 C##8. .9990 -.2852 .9339 0 .1580 1.3926 .9443 -.1411 -.1262 -.1721 -.1598 -.2514 -.1238 -.0814 -.2965 .9600 DEPENDENT VARIABLE CP 1.3926 DEPENDENT VARIABLE CP .1120 .0855 .1100 .1387 .1465 .1508 -.0785 -.0250 -.1095 -.1247 -.2352 -.1834 -.0849 -.0032 MACH ₽692 .2793 .9210 MACH .1760 .1696 .2202 .2675 .2575 .2112 .2412 .0700 -.0312 -.0391 -.0508 -.1254 -.1817 -.0353 .0326 .0822 .2714 .2703 .8790 4.252 .0460 .2639 .2727 .3057 .3393 .3394 .3358 .4038 .8210 .4166 .0384 .0413 .0323 .0339 .1283 .2482 .3410 3985 ຄ 3 5862 5862 5862 5862 5863 5871 5841 .0230 5323 .7790 .1916 .1987 .2051 .2151 1564. BETA BETA SECTION (1) ORBITER FUSELAGE SECTION (1) CHARTER FUSELAGE .0080 .9235 7317 -.1793 .0626 7447 .7290 -.0429 4400. .0031 4.005 3.907 .0000 -.0166 .0311 .0602 -.0536 -.0216 1.4710 01/4-1 .6520 -.0241 ALPHA (3) 20.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 A. Pres אירש

-.1162 -.0996 -.07-9 C/54. -.0:02 .3780 -.1486 -.1888 -..703 .0566 .0408 -.1557 -.2270 -.4226 .3010 .0409 . 0264 -.2207 -.2392 -.2721 .85 .0626 . 0224 .0262 .0158 .0050 .0545 .1033 .0502 .2040 .1770

.1660

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m : 1 .9293

1.4592

.0403 .0327 .0521 .0531 .1529 .3737

> .0766 .0819 .0719 .0738 .0719

1817 1496 1735 1702 1600 1600

5740

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(XE8857)

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
DATE 10 FEB 76	•

		.5740						2.8969		.5740	. 0958	
		.4970	0654	0703	0864			•		.+970	.0805 .0781 1358	1261
		.3780	1954	2093	198⁴			RN/L		.376	.0966 .1074 .0312 3389	2183
		.3010	2896	2289	2468			441.36		.3010	.3146	3817
		.2510	4074	4069	3824			• a		.2510	.0854 .1271 .1024 -1109	4326
		.2040	1640 2678	2586	3641	1.0460	.3034 .1697	599.59		.2040	.0907 .0831 .0925 .1375 .4105.	1137 2862
		.1770	.5202	. 6082		1.0180	. 3358 . 2348	593		0771.		.6769 .7185
		.1660	.7884	+006	. 9337	.9990	3741	0		.1660	.1083 .1255 .1700 .1974 .1924 .5126	.8854 19121
	LE CP	.1580			. 8380	.9600	- 1460 - 1294 - 1988 - 1806 - 2231 - 3397 - 1782 - 1782 - 1465	1.3931	LE CP	.1580		.8126
	DEPENDENT VARIABLE	.1120	.2257		.2705	.9210	0796 0350 1403 1435 2565 2511 1427 0778	MACH =	IT VARIABLE	.1120	.1574 .2125 .2390 .2381 .2381	.2073
4.252	DEPENDEN	.0700	.2200		¥TTS.	.8790	0317 0331 0682 1433 2425 0977 0673	3.862 MA	DEPENDENT	.0700	.2582 .2583 .3362 .3797 34.00 .3182	.2071
<i>;</i>		.0460	. 4082		4299	.8210	. 0334 . 0234 . 0234 . 0333 . 0333 . 139 . 139)))		.0460	3954 3979 4980 4980 4511 3981	3305 505
BETA (3)	30	. 0230	9684.		.4953	0677.	0855 0855 0855 0855 0855 1833 843 843 843 843	BETA (1)	پي	0230	.5523 .5959 .7054 .7058 .5905 .6550	. +539
907 BE	R FUSELAGE	.000			. 7266	.7290	.0531 1882 1221 0231	38 346	R FUSELAGE	.0000	0405	
8. W	1 JORBITER	.0000			1.4592	.6523			1109RF1TER	.0000	.: .:	
ALPHA (3)	SECTION (X/LB	_888	162.000 183.000 183.000	20.	X/LB	1 - 01-010-11-11-11-11-11-11-11-11-11-11-11-	(†) = 4	SECTION 1	X/LB		140,000 150,000 151,000 155,000 160,000 17,000

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IABULATED PRESSURE DATA - DAIMB (A TES 11-073-1)	AMES 11-073(0A148) -140A'B/C/R ORB FUSELAGE	
IE 10 FEB 75		

PACE 671

	5740					2.8969		576	.0795	6							
	.¥970	6694				•		.4970	.0835	.0669	1535	1722	 6) 1:-	0504	949.		
	.3780	.2126				2		.3780	.1047	. 1000							
	.3010	.2706				441.36		.3010	.0741	.105t			Ş				
	.2510	4169				• a		.2510	.0755	.1008							
	.2040	3805	1.0460	.3835				.2040	.0971	0666			•	2829	- 4146	1.0460	.3743
	.1770		1.0180	.3640		= 599		.1770) 00-		1.0180	. 4364 . 3456
	.1660	.8634	.8990	Ç	2974	ď		. 1660	1162	14.00	1350	.4639	. /955	.3802	. 8824	0666.	
BLE C'	.1530		.9630	0663 0734 1600 2152	2422 1224 0957 29.39	1.3974	PLE CF	.1580					•	-	ආ ග	.960	0662
IT VARIA	.1:20	.1870	.9210	0131 .0437 1355 1954	1978 1317 0009	# #3	IT VARIA	.1120	24	1806	13.00 10.00 10.00	. 1831	S S T		. 1965	.9210	# 9 00
DEPENDEN	.0700	. 1825	.8790	.0382 .0170 1374 1353	0616 0490 .0368 .2477		DEPENDEN	.0700	0736	. 2000 0000 0000 0000	2350	ָּהָנְאָ. בְּיָהָנָאָ	nca! .		. 1925	9790	.0387
	.0460	.3166	.8210	.0986 .1109 2250 0319	.0667 .1238 .1280			.0460	3784	3985	33.45 33.45 33.45 33.45 33.45 33.45 33.45 33.45 33.45 33.45 33.45 33.45 34.45	. 35. 1.	, 293		. 3255	.8210	.1154
IGE	. 0230	.3592	.7790	.1327 .1514 .2789 2379	.0785 .0620 .0616 .0746 .(325	TA (2)	GE	. 0230	.5571	.6301 .6301	. 580 740 740	. 5096	. 4683		.3763	.7790	.1589
IR FUSELA	. 0080	.6157	.7290	.1166 2366 1931	1717 0298 0253		R FUSELA	.0080	1.0429		.686				.6067	.7290	.1225
1.10RB1TE	.0000	1.4360	.6520	. 1382 1334 1982	1790 0866 0577 0476	= 7.9	1) ORBITE	. 0000	1.4409						1.4409	.6520	. 1925
SECTION (X/LB	PH1 180.000	X/LB		135.000 135.000 150.000 165.000	ALPHA (4)	SECTION (X/LB	PH1 .000	40.000	90.000	140.000	151.000	169.000	174.000 180.000	X/LB	PH1 .000 .000
		11ON (1)ORBITER FUSELAGE DEPENDENT VARIABLE C'. .0000 .0080 .0230 .0460 .0700 .1:20 .1530 .1660 .1770 .2040 .2510 .3010 .3780 .4970	110N (1) ORBITER FUSELAGE DEPENDENT VARIABLE C ** .0000 .0080 .0230 .0460 .0700 .1;20 .1530 .1660 .1770 .2040 .2510 .3010 .3780 .4970 .000 1.4360 .6157 .3592 .3166 .1825 .1870 .863438054169270621280584	110N (1) ORBITER FUSELAGE DEPENDENT VARIABLE C ** .0000 .0080 .0230 .0460 .0700 .1120 .1530 .1660 .1770 .2040 .2510 .3010 .3780 .4970 .000 1.4360 .6157 .3592 .3166 .1825 .1870 .863438054169270621260684 .6520 .7290 .7790 .8210 .8790 .9210 .9620 .9630 1.0180 1.0460	110N (1)0RB TER FUSELAGE	1.000 1.0480 TER 1.05EL Age 1.120 1.120 1.150	1100 1100RBITER FUSELAGE 1100 1110	1100 1100881TER FUSELAGE	110N 1 100RB TER F USEL AGE	110N (1) ORBITER FUSELAGE 1000	1100 1 1008 TEST LAGE 1120 1	1100 110480 1055 1050 1120 1120 1150	1100 11048 TOSELAGE CPFENGENT VARIABLE C 1500 1	11000 110000 10000 10000 1120 1150 11	1100 (1) ORBITER FUSELAGE CEPLAGENT VARIABLE C	1100 1.0360 1.0360 0.630 0.6450 0.7300 0.1360 0.1570	1100 1.0360 1.080 1.080 1.18

ALPHA (4) = 7.917 BETA (2) =

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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							2.8969		.5740	****0.	.0560								
							•		0.4970	.0761	90+0.	1923 1543 1634	0580	0569	0720				
							RN/L		.3780	.1079	.0875	1451 1867 2226	1817	2112	2105				
							441.36		.3010	7170.	₩690.	- 1331 - 1749 - 3971	3291	2620	2708				
									.2510	.0745	. 9596	1832 2101 2555	. 1044	4321	4117				
		1.0460							.2940	.0846	.0319 9.0319	0.000 0.000 0.000 0.000 0.000		- 29t5	4013	1.0%60	.2419		
		1.0180					* 599.59		.1770					5843	·	1.0180	.4349		
		ე666 .	20.5	3379			σ		. 1660	5503.	. 1017	.0930 .0930 .3790	.7429	.8510	.8951	0666.		2767	
Ş	נ נ	.9600	2022 207! 2831	2776	1202		1.3931	LE CP	.1580						.80€7	.9600	0753 0694	2028	3556 2091 1863
24.047	ANI NAV 1	.9210	1623 2126 3005		0578		# CH	T VARIABLE	.1120	į	9621.	.0670 .0670 .1331	. 1595		. 1869	.9210	. 0336		1712 1712 1250
THE PROPERTY AND ADDRESS OF THE PROPERTY OF TH	CEPENDEN	.8790	1509 1932 2271		200. 04.00. 04.00.		4.251 MACH	CEPENDENT	.0700	1484.	2407	. 1550 . 1550 . 1550 . 1607	.1460		. 1965	.8790	. 0414 . 0393 		1253 0755 6447
, -		.8210	1012 0154 .0514	000	20.0	.4075	±		.0460	en e	99999 99999 99999	. 25 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	.3205		ų. õ	.8210	1072 1264 1254	333	0539 -2358 -3017
į	4	.7790	2693 2272 0370	1860.	. 09760 . 09760	: 581	TA (3)	냃	.0230	\$6.50°	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.5016 .476 .4767 .4433	. 39.+4		3776	.7793	. 1346 . 1656 . 1650	11437	. 1415 . 1415 . 1615
	4 - COELA	. 7290	2490 1855	0861	0435	0189	+9 BET/	R FUSELAGE	.0363	1.0392		. פאני			.5847	.7290	1252	1699	6589
SON INDICATE CONTRACTOR	1 1020 1	.6520	1382	0633	03390 -	02.3t	= 7.8+9	11099175	ecre.	0/20 T					1.4338	.6523	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10	+ . 03336
	ر د د	x/LB	PH] 70.000 90.000	000.000 50.000 50.000	7000 7000 7000	83.833	AL Prefa (+)	SECTION (m 1/×	ξ	1616	44 44 45 60 60 60 60 60 60 60 60 60 7	いじい	ひいしょい	COL	all/x	000 000 000	7 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	10(1) 10(1) 10(0) 10(0)

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	ANES 11-07310A148) -140A/B/C/R ORB FUSELAGE	= 7.849 BETA (3) = 4.251
		7.849
7EB 76		n T

			ļ	2,905.5		.57±0	.1515	.1635											
				•		.4970	Pogral .	.1456	1355	£553	.1609	. 1055	.0734						
				FN/L		.3780	140 1	.1768	0192 -		2579	2144 -							
				440.88		.3010	. 1263	.1815	0106		4288	-, 3631	. 2941						
				•		.2510	.1427	.1770	0713		4712	4343	4396						
		1.0450		600.23		.2040	. 1687	. 1557		1853	0756	3303	4078	1.0450	.4438				
		1.0180		- 600		.1770					0880	.6847		1.0180	97.79 99.77				
		ა666.		σ		. 1660	. 1856	5012. 77.75.	. 1913	. 1832	.8755	ć	.7993	0666.			2334		
	LE CP	.9600	3530	1.3946	LE CP	.1580							.6743	.9600	.0161		2550	2138	3000
	T VARIAB	.9210	0623	MACH #	T VARIAB	.1120		. 2519 1405.	. 25.5 5.73	.1950	.1313		.1204	.9210	084B 0637	086! 2207 3028	2290	1459	, i
.251	DEPENDENT VARIABLE	.8790	.1813	.847 MA	DEPENDENT VARIABLE	.0700	.3603	.3539	3365	.1804	.1407		.1135	.8790		2283 2117 5117		7.0597	0 U
±		.8210	.2960	# [4]		.0460	4882	. 5143 6043 605	15157	.3070	.2212		.2276	.8210	. 1848	. 28.51 - 28.53 - 79.98	.0659	2252	.3550
BETA (3)	GE GE	.7790	4111. 1079	BETA (1)	SF.	.0230	6755	. 7205 2057	. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	.6:99	3464		. 2565	0677.	4555.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0356) j ()	-, C655 -, C655
	R FUSELAGE	.7290	0115		R FUSELA	.0080	1538			.7698			.4803	.7293	.2030	3370	1922	1775	36:8
= 7.849	1 CRBITER	ეერე:	0335	= 11.907	110RBITER FUSELAGE	. 0030	1881						1.3881	.652B	Sec. 1.		1833	to t	rail.
ALPHA (4)	SECTION	X 'LG	PHI 165.000 183.000	ALPHA (5)	SECTION (X/LB	Irid	100 100 100 100 100 100 100 100 100 100	39.00 13.00 13.00	0000	150.030	151.003 152.000 165.000	0000 0000 00000 00000	X 21 B	РН! . 600	2885 2885 2885 2885 2885 2885 2885 2885	500 500 500 500 500 500 500 500 500 500	ា ពីរ (ប្រវ ព្រះ ព្រះ ព្រះ ព្រះ ព្រះ ព្រះ ព្រះ ព្រះ	的で けい よい よい より はい

	2.9052		5740	1543	1526								.9052		5740	1465	1240	
	'n		Š	•		10 (0) (0)		4.					9.		•;	•	•	
	FAV.L		.497¢	. 1594	. 1313	1663 1939 2489	0906	0555	04k				ه لب		±6975	.169.	. 1056	23:5 239 144
657)			.3780	. 1599	. 1604	0874 1278 4325	1973	1883	1996				RN/L		.3780	. 1557	. 1323	1455 1800 3823
(XEBB57	* 440.88		.3010	.1303	. 1368	0716 0962 3461	3933	3158	2714				440.88		.3010	.1230	. 0808	1193
	۵.		5135	.1438	.1270	1153 1418 1775	4642	4268	4573				.		.2510	.1370	6490.	1599 1908 2383
	600.23		.2040	. 1672	1154	. 1639 1 1201	2011	3129	4337	1.0460	2913		. 23		.2040	.1603	. 0609	4040.
FUSELAGE	60		.1770				i C	\$/AC:		1.0180	6467 845		= 800		.1770			
ORB	o		. 166	. 1924 1846	2021	1195	.7375	.8035	.8182	.9990	G A I	3664 3664	o		. 1560	. 1599	.0490	.0513 .0595 .3536
-140A/B/C/R	1.3946	BLE CP	.1580						. 7398	.9600	.0080 .0063 .2168 2406	3118 2051 1646 3426	1.3946	LE CP	.1580			
-073(0A148)	MACH =	NT VARIABLE	.1120	o ch	2480	.1554 .1228 .1185	=		.1278	.9210	.0838 .1338 .2538 2738	2435 1573 1123 0270	# H	T VARIABLE	.1:20	.2121	. 1875 . 0549	.0790 .0540 .0875
	.186 m	DEPENDENT	.0700	3707	3774	. 2505 . 1505 . 1504	.1232		.1166	C678.	.1383 .1219 2599 2574 3041	1349 0919 0247 23:5	PAS MACH	C SENDENT	.0703	.3521	8410M.	. 1631 . 1402 . 1123
AMES	#		.0460	.4931	.4978 .4059	.3723 .3098 .2531	.2401		.2397	.6210	. 2955 .2155 2108 1096	0463 .0740 .3274	.		.0+53	8684. 6584.	7-11-3 2005	. 2019. 1924. 1924.
	BETA (2:	AGE	. 0230	.6779 .6856	.6304	. 5529 5524 5524 5326	. 3263		.2655	.7793	. 2000 - 2000 - 2000 - 2000 - 2000 - 2000	. 0555 0555 0555 0545 0545	BETA (3)	AGE	. 6230	.6437	. 5020 . 5020 . 5040	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	в свя.	ER FUSELAGE	. 0080	1.1559		. 6356			.4637	.7290	.2339 3570	1210 0895 0301	•	P FUSEL	.0393	6441 . :		1264
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	ALPHA (5)	SECTION (X/LS	1. 50. 50. 50. 50. 50. 50. 50. 50. 50. 50	6 6 6 6	ក្នុង ក្នុងក្នុង		ក្រុមប្រ ប្រជាជា	3	B 7 8	4 45 8 9 4 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ပြင်းပြင်သို့ ကြောင်းပြင်သို့	ALPHA / 5.	3507 COR	m i	000	1 (1)	

(XEBB57)

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)	AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE
DATE 10 FEB 76	

BETA

5750 57.0 3764. -.0613 5.4g√. -.0513 -.0740 -.2079 .3780 -.1739 .3780 -.1972 .3010 .3010 -.2820 -.3566 -.2917 . 5 5 5 -.4678 .2510 -.4321 -.4466 -.4213 .2040 .2040 -. 3233 1.0460 -.0652 598.94 .1770 1.0180 .5403 .4143 .1770 .4856 .9990 -.3650 . 1660 .7640 .8247 .6585 . 4199 66153 3490 8490 1.3964 -.0106 -.2605 -.2681 -.3914 .1580 .9500 DEPENDENT VARIABLE CP ဌ DEPENDENT VARIABLE .0793 .1215 -.2953 -.3018 -.3053 -.1733 -.1406 -.0881 .9210 .1186 .1120 . 1045 MACH .1293 .1185 -.2360 -.3044 -.3994 -.1717 -.1055 -.0394 -.2157 .0700 .1298 .0885 .8790 822 -.1402 .1457 .2904 .1973 .2172 -.2173 -.1409 .3518 .2593 .8210 .0460 .2312 = .2591 .2567 -.3771 -.2508 .0138 .0589 .0084 2612 .0230 .7790 BETA SECTION (1) DRBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.0539 -.3357 .0080 -.0949 -.0412 .4383 .7290 1705. 15.871 11.884 -.0436 -.0394 -.0567 .1516 .1739 -.2:51 .0743 3000. .6520 1.3953 . 398 40.000 70.000 105.000 120.000 180.000 180.000 180.000 180.000 180.000 I BHO'N X/LB X/LB

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-.0733 -.0915 -.1261

.25.20 .22.30 .1330 .1196 .1196 .1189

2683 2683 3155 1835 1835 1786 1575 3050

3472 2365 2365 2379 1599 0830

.4721 .4676 .5:16 .5:16 .273 .3273 .0828

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AGE
R ORB FUSELAGE
ORB
-140A/B/C/R
1- (84)
ANES 11-073(0A148)
AMES 11

		375					2.9058		37.40	. 2332	. ¿275						
		3664.	0678				•		07 64 .	. 23 62	.20E	1.100±1 1.00±1 1.00±1	65	0665	0539		
		.3780	1938				FN/L		.3780	.2205	.2070	0858 151 5236		. 1837 -	. 1707		
, 26		.3010	3043				438.77		.3010	.1987	5771.	0787 0832		.3346 -	- 5482 -		
		.2510	4554				•		.2510	.2150	. 1632	1092 1376	0+6+	- 4124	4788		
		. 2040	4397	1.0460	. 3236		598.94		.2040	884 616 616	. 1558		. 1663	3473	. 4554 .	1.0460	.5100 .3408
		.1770		1.0180	.6359 .4881		* 598		.1770				•	.6013	•	1.0180	.5379 .4946
		.1660	. 7323	.9990		3702 3468	o		. 1660	.2750	. 2464 4646 666	4460. 1660. 3188	.6432	.7328	.7536	0666	
	BLE CP	.1580		.9600	.076E .0678 1598 2833	2826 2112 3049	1.3964	LE CP	. 1580						.6467	.9500	.0634
	UT VARIABLE	.1120	. 0662	.9210	.1644 .2205 3910 3628	2729 1602 2737 056:	MACH .	T VARIABLE	.1120	7367	3158	. 1440 . 0932	₩200.		. 0688	.9210	. 1631 . 2153
3.822	DEPENDENT	.0700	. 0544	.8790	. 2736 - 2736 - 2736 - 2880	1925 2027 3714 .1550	.187 MA	DEPENDENT	.0700	.4762	1144.	. 1844 . 1844	+650·		.0553	.8793	.2508
) = -3		09+0	.1431	.8210	.3030 .3225 4608 1658	.0992 .0403 .1533			0940.	0.71	1101	. 8301 . 8750 . 1750	. 1407		. 1613	0128.	.3371
BETA (1	43€	.0230	. 1591	.7790	.3301 .3659 5241 3734	1.1060 1.0563 1.2023 1.2023 1.020	9£74 (2)	မ္မ	.0230	ຕິວ	7) (U)	1 M (0) 1 (1) (1) 10 (1) (1) 10 (1) (1) 11 (1) (1) 11 (1) (1)	. 2295		.:635	2677.	.3591
	: 10PBITER FUSELAGE	.080	.3200	7230	.3034 3118 3113	1932 3196 0075	833 85	9 FUSELAGE	.0380			.5593			.2335	.7293	. 2995
= 15.871	1169011	.0000	1.3193	.6520	2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	-,2838 -,2803 -,1177	r. r.i	11089115	0000	1.3244					: 32++	08991	2554 7257
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TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					2.9055		.5740	.2250	. 2024								
					•		£63±.	. 2254 4254	.1737	- 2904	075-	0510	0695				
					RN/L		.3780	.2195	. 1685	1536 1740 4886	1818	1750	1998				
					438.77		.3010	. 1966	.1192	1311		2909	3046				
							.2510	.e. 04	.0676	- 1437	4907	4587	4517				
		1.0460					.2040	.2370	0850		0514	3554	4565	1.0460	.5167		
		1.0180			* 598.94		.1770			•		. 5306 5306		1.0180	.6352))	
		ა666 .	; ;	3917	σ		. 1660	2719	. 1651		5898	, 200 200 200 200 200 200 200 200 200 20	.7548	0656			-, 4282 -, 4042
	LE CP	.9600	2711 3168 4268	3284 2313 2604 3555	1.3964	LE CP	. 1580						. 5893	.9600	.0428	2603 3374 4785	3920 2873 2122
	T VARIAE	.9210	u~13 3678 4492	2538 1780 2307 0706	MACH =	I VARIABLE	.1120		. 2399 9.63	. 0571 . 0285 . 0285	9519		.0576	.9210	1529	- 3745 - 3752 - 3752	2822 2544 1309
.187	DEPENDENT VARIABLE	.8790	5090 3737 4067	1930 1125 2772 2494	.292 MA	DEPENDENT	.0700	6994.	# 1 1 # .	5/5/1. 5/11. 6/11.	8240.		5170.	.8793		0.47.4.1. 0.004.1.	
		.8210	4618 2555 0830	0123 .0038 .2534 .2885	÷		.0460	5975	. 55529 . 4839 . 4839	5105. 6255. 6671.	.1380	· !	. 1659	.8210	f1 •	4332 2633 1716	1897 2530 2355
TA (2)	ñ	0677.	5460 3998 2952	0951 .0099 1856 1035	TA (3)	JOE 10E	.0230	.7912	. 1535 . 5580 . 5580	. 1000 t. 1000 t. 1000 t.	7905.		¥151.	2677.	1	1 - 1 - 1	
83 RET.	P FUSELAGE	.7290	-, 4845 -, 3274	1594	115 BETA	R FUSELAGE	.0083	1.2+38		7+3+7			.2693	.7231	7E.E.	4533	: 345 : 345 : : : : : : : : : : : : : : : : : :
15.88	110931169	JES9.	- 3454 - 2118	-,11,77 -,15+5 -,0759	15.9	1)CRBITER	0000	:.3175					1.3:76	.6523	ų : 1., :	្តភ្នំ ស្រុ ស្រុក ស្រុក	in the
के. तमक (छ)	SECTION (X/LB	1.000 1.000 1.000	ာင္မေစဂမ ၁၆၆၈၁၁ ၁၆၆၈၁၅ ၁၉၈၃၈	4. 5. 5. 5.	SECT: 04 (@1/x	to constitution of the con	(100) (100) (100) (100)	00000000000000000000000000000000000000				в· ;		. 당당. 왕류덕동) (+ (+ (+ (+ (+ (+ (+ (+ (+ (

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

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AMES 11-073(04148) -1404/8/C/R OR3 FUSELAGE

ALEMA (6) = 15.915 BETA (3) = 4.292 SECTION (1 ORBITER FUSELAGE DEPENDENT VARIABLE CP

0940.1 0810.1 0866. 0096. 0126. 0678. .8210 .657. 0657. 0739. භ₃/×

FAGE 878

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ANES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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		٠ ٧		3L64.	098:	1237	.0196	. 0251 0251	0712	082E	0935							
IC DATA	SPOBRK L-ELVN MACH	7 FBV/L		.3780	0688	0903	0740	6898 1329	1281	1409	1650							
PARAMETRIC	10.000 16.300 -4.000	- 550.87		.3010	2536	1546	1294	2376 4150	2304	2300	1765							
_	RUDDER = BOFLAP = R-ELVN =	.		.2510	0169	2056	2763	1.4. 1.4.	3905	2928	3694							
	50.5	600.07		.2040	0093	2037	.0219	.0127 .0746	. 1958	2653	3728	1.0460	. 1533	.9331				
		= 601		1770					A 5.20	7095		1.0180	.2204	.0788				
		o		. 1660	0121	. 1019	. 1913	.4971	.9247	.9786	.9108	. 9930			!	2715		
		1.2474	PLE CP	.1580							1.0523	.9630	2950	3147	0651 0906	-,0509	.0582	5:62
	9 99	MACH *	DEPENDENT VARIABLE	.1120	į	0542	.1252.				.609.	.9210	2496	1715	.0367	. 0350	9641.	. 6383
	076.6800 IN. .0000 IN. 375.0000 IN.	-3.834 M	DEPENDE	.0700	.010.	0366	.3194 .3194	.3721	. 5355		.5270	.8790	1933	7.50%-	1864	. 0137	1001	ກ ກ ກ ສ
	1076.6	#		. 0460	.0673	1162	. 4122	.4920 .6183	.6478		.6148	.8210	1171	1204	8189. 87:5.	1808.	19:4	578+.
TA	XMRP VYSP ZPSP ZPSP	BETA (1)	AGE	. 0230	1990	. 4093 093	. 5579 . 6652	.7350 .8024	.7934		.73:5	0677.	0537	0835	1788 1788 1808+	9,57		3. 2.00 4.00 4.00
REFERENCE DATA	S. Z. Z.		1:0PBITER FUSELAGE	.0083	.6324			.9227			1.0092	. 7290	0239		n m 1970 :	. 3753	.1069	9151.
REFE	សស្តេច ១០១៤ ១០១៤ ១០១ ១០១ ១០១ ១០១ ១០១ ១០១ ១០១ ១	310.4- =	1:09911	. 6330	1.4063						1.4353	.6520	6000.	0593	ក ដា ក្រុម ក្រុម ក	. 5693	10	10 m
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			076*.	- 98. - 5.00 - 5.00 - 6.00 - 6	0597	0568			ات س	0.64	0994 0150 0175
ê	7.2		.3780	0743 0854 1177 1219 1886	1609	1653			75. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	.3780	0575 078 1345 1259 2508
(XE9858)	- 550.87		.3010	0525 1226 2070 3176	. 168 1. 168	1469			• 550.87	.30:0	0481 1037 350 555
	•		. 2510	0069 1362 3371 3210	3623	4024			<u>-</u> ۵.	%	0106 0936 3833 3915
	73.0		.2040	0010 0371 1471 0197 0138	-, 1594 -, 2790 -, 2598	3427	1.0460	7771. 2850.	76.8	. 2046	1.0263 1.0263 1.0263 1.0263 1.0263 1.0363 1.0363 1.0363
FUSELAGE	- 600		0771.		.5679		1.0180	.0718	. 600	ដ	
ORB B	o		. 1660	0090 0203 0535 .0572 .1322 .1652	.9539	7449.	.9990	2537 2537	5	. 1663	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
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-073(0A148)	MACH .	UT VAR! ABLE	.1120	1.030. 0000. 0000. 0000. 0000. 0000.	.5734	.5181	0 ; gg .	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	MACH	VAR1	- 7412 - 7320 - 7320 - 7320 - 7320 - 7320 - 7420 - 7420 - 7420
=	.202 M	DEPENDENT	.0700		8661.	5143	.8790	0.000 km	.280 M	DEPENDENT.	
AMES			.0460		CD .	.6223	.8210	450 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	÷	.0460	
	BETA (2)	AGE	.0230		.7469	7474	.7790	1.00488 1.00488 1.00888 1.00888 1.00888 1.00	3ETA (3	.023C	
		FUSEL	.0080	. 7847.		6666	. 7290	- 0039 - 0443 - 0443 - 1115 - 1303 - 1303	96 700	ER FUSELAGE .0083	.6162 .6382
	-4.012	1) ORB! TER	. 0000	<u> </u>		† (1)	.6523	0339 9100 9270 0727 0729 0720 0540 0540 7750		LIGRBITER LOGGE	. 3561
	ALPHA (1)	SECTION (X/LB	20.000 20.000 50.000 50.000 75.000		74.5 83.0	87.78	7 - 34 C 66 C	. 1	SECTION (Pul 600 600 600 600 700 600 700 600 600 600

TABULATED PRESSURE DATA - 04148 (AMES 11-073-1)

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AMES 11-73(0A148) -140A/B/C/R ORB FUSELAGE

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.5740 .5740 -. 0589 -.0403 3.0093 .4970 -.0349 -.0339 -.0798 .4970 -. 0935 -.0796 -.0635 -.0855 -.0951 -.0901 Z .3780 -.0222 -.2206 -. 1878 -.0784 -.1250 -.1621 .3780 -. 1637 -.0248 -.1582 551.11 .3010 -.0978 -.1966 -.4081 -. 1956 -. 1646 .3010 -.172 -.0058 -.0671 -.3053 . 35 50 50 50 50 -.2517 -.2328 -.1791 -.3508 .2513 -.0773 -.3927 -.4140 . 0258 -.3989 -.4550 ۵ -.3196 -.0253 -.0217 -.0744 .0929 .1260 .0700 .0868 .2040 -.2782 . 1646 . 0469 1.0460 -. 3827 .2040 .3191 599.89 .1770 .4620 .1116 .1770 1.0180 .6335 . 1660 .7693 .9073 9390 .9314 -.3307 . 1660 .0140 .0140 .0162 .0162 .2306 .2760 9021 ø -.3008 -.2923 -.1599 -.1402 -.2610 -.1476 -.1267 -.3723 .9897 .9600 . 1580 1.2470 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.2470 -.1797 -.0659 -.0908 -.2359 -.1109 -.0566 .1120 .5087 .6023 .9210 .0034 .0520 .1869 .2719 .3241 .1120 5213 858 MACH .0073. 9444. -.1971 -.2000 .0854 .0115 -.1499 -.0415 .0689 .2840 5272 .8790 .0700 9880 9880 1389 8450 4450 4530 4530 4376 # -3. -1175 -1041 -2946 -2751 .5669 .0460 .6186 .8210 .0471 .4292 .4551 .5160 . 2460 1666 1815 2335 3753 4343 4782 6431 5363 3 BETA (1) -.0545 -.0495 .1523 .2254 .3116 .0230 .7438 .6857 .7790 .3199 .4104 .4386 .4386 .4591 . 0230 3004 3421 3421 5123 6313 6854 7194 5844 BETA SECTION (1) ORBITER FUSELAGE SECTION (1) OPBITER FUSELAGE .0080 -.0119 .0483 6186. .7290 .0080 -.0157 .1274 . 1386 .1150 .7640 .9303 .035 14.007 -.0117 -.0120 .0534 .0534 0000 .6520 .0132 .0086 .0070 . 3000 ავე 1.3961 1.4151 A.PHA (1) LPHA (2) PH1 1140.600 1151.000 1151.000 1168.000 1169.000 1169.000 1174.000 .000 40.000 70.000 99.000 1175.000 128.000 138.000 156.000 165.000 Ξ K/LB X/LB Ĭ

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			.4970	0790						0.4970	- 8450	- 0690 -	0409 0460 0596	0569	7503	0517		
B58)			.3780	2058				I RN/L		.3780	0315	0279	1367 1625 1587	1802	2002	2054		
(XE8858)			.3010	6278				551.11		.3010	0003	0497	1754 2746 4742	3123	2401	2137		
			.2510	4255				۵.		.2510	.0358	0407	3026 2977 2703	4600	3930	4646		
			.2040	4226	1.0460	.2103 .1043		599.89		.2040	.0436	0277		3173	3215	4567	1.0460	.2195 .0700
-140A/B/C/R ORB FUSELAGE			.1773		1.0180	.2602 .1670		* 55		.1770				1076	10. 10.		1.0180	. 1476
C/R ORB			. 1660	.8702	.9990	3100	0. 10. 10. 10.	ø		. 1660	.0283	0463	2071	.8258	.9187	.9036	.9990	
-140A/B/		BLE CP	.1580		.9600	2262 2345 1251 1358	1235 0440 0096 3358	1.2470	BLE CP	. 1580					Š	9065.	.9600	2312
		NT VARIABLE	.1120	.5138	.9210	1750 0855 0579 0496	1219 0295 . 0653 . 1634	MACH	NT VARIABLE	.1120	2	.0478	1821 1825 2269 4078	6464.		.5272	.9210	1739
AMES 11-073(0A148)	. 858	DEPENDENT	0070.	.3984	.8790	1164 1339 .0726 6207	0459 0207 .0533 .3667	₩ 681.	DEPENDENT	.0700	¥0:1.	1180	2791 2791 3385 3138	.3740		7404.	.8790	1201
AME) = -3		.0460	.5021	.8210	0452 0466 1707 1489	.3583 .3593 .3588 .3712	# •		.0460	.1557	2027	3259 3676 4618	.5120		. 5090	.8210	0420
	BETA (1	A GE	. 0230	.6065	.7790	.0128 093 1714 0515	.3302 .3902 .3772 .3570	35TA (2)	AGE	.0230	.3043	14460	.5733 .6101 .94	.6394		.6205	.7793	.0160
	.035 BI	ER FUSELAGE	.0080	.8795	. 7290	1039	0105 0476 .1054	0+0	IR FUSELAGE	.0090	. 7646		.7599			₩078.	.7290	. 0261
<u>)</u>	#	1:0RB1TER	.0000	1.4151	.6520	(7) +- + + (A) (,	110931TER	. 9003	1.4208					1.4238	. 6520	. 10193 1009
	ALPHA (2)	SECTION (x/LB	PH1 180.000	x/LB	PH1 40.000 40.000 105.000	88888	ALPHA (2)	SECTION (x/Le	PH1 .000.	\$0.000 %	162 162 163 163 163 163 163 163 163 163 163 163	150.000	68.000 68.0000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.0000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.0000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.0000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.0000 68.0000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.0000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.000 68.0000 68.000 600 600 600 600 600 600 600 600 600	180.030	S L S	17d 000 000 000 000

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y wy			-						•		•		.5075	.9210	7777	
. 9210 - 1590 - 1590 - 1590 - 1590 - 1180 - 1180 - 1168 - 1168 - 11762 - 11763 - 11763			DEPENDI .8790		.261	DEPEND	.0700				.3297		.3981	.8790		
0255 - 0923 - 0923 - 0922 - 1590 - 0923 - 0922 - 1590 - 0924 - 0922 - 1590 - 0924 - 0925 - 0934 - 0921 - 0934 - 0921 - 0934 - 0921 - 0934 - 0932 - 0934 - 0932 - 09	. 8790 . 0255 . 01895 . 01895 . 01895 . 01895 . 01895 . 01895 . 01896 . 01896		.821	• • • • • •			.0460	•			74.			.82	7.00.0	3850.
	9210 . 8790	_	.AGE . 7790	-1228 -0803 -2038 -2038 -3453 -3453 -3638	∵	AGE	.0230	.3021	3776	.4699 .4699 .5076 .5613	.5902		.6231	.7796	3410. 3855. - 0553. - 5505.	40a5.
7790	DEPENDENT 7790	i i	•	1073 0451 .0316 .0785			.0090	.7504		.6126			.8485	.7290	. 0222 1152 0495	. C423
7290 7790 8210 8790 9210 1073 -1222 1750 02550923 0451 0802 131201890893 0316 2970 185207931840 0785 3453 3954 06510194 0080 0230 0460 0700 1120 7504 3021 1607 1152 0090 0230 0460 0700 1120 7504 3021 1607 1152 6126 2993 1443 0998 0122 7504 3029 1965 1433 0652 7504 3077 8149 1168 6126 6231 5076 3297 4389 7290 7790 8210 6790 9210 7290 7790 8210 6790 9210 7290 7790 8210 1607 1438 1658 1152 -0533 1514 -0026 -11762 0225 1169 -1669 11768 1152 -0533 1514 -0026 -11768 1152 -0533 1514 -0026 -1178	FUSELAGE			0200 0238. 0370. 1250.	#		0000.	1.4083					1.4093	.6520	ម្ភាព មួយ ១០០១ ១០០១ ១០០១ ១០០១ ១០០១ ១០០១ ១០០១ ១០	1930
		fu:	SECTION (74.000 90.000 105.000 110.000 135.000 165.000 165.000	ALPHA (2)	SECTION (x/L9	;;	386	3888	88	187.00 188.00 189.00 18	18	X/LB		

DATE 10 FEB 76

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				3.0120		.5740	0166	. 0026												
				RN/L . 3		0.4970	0144	01 <u>e</u> t	1050	1028	1017	0809	0665							
						.3780	.0291	.0506	0742	2752	1920	2069	2286							
				· 551.34		.3010	.0375	.0123	0809	- 1340 - 14045	3922	3565	2903							
				• •		.2510	. 0662	.0331	2220	2179	5091	-, 4656	4735							
		1.0460		599.84		.2040	.0508	.0361	1691	. 1888	. 2356	3715	4718	1.0460	.2852	.1714	•			
		1.0180		* 599		.1770						.6473		1.0180	.3636	.2618				
		. 9990		o		. 1660	.0580	1095	.2526	.5064	.8792	8806.	.8272	0666.			i G	2919		
	BLE CP	.9600	3740	1.2467	SLE CP	.1580							##C6.	3096.	1595	1715	1917	1900	0898	3337
	DEPENDENT VARIABLE	.9210	0098	MACH =	DEPENDENT VARIABLE	.1120	Ç	.1340	. 2537	.3793	34145		.4088	.9210	1005	0247	1164	2251	.0018	1104
4.261	DEPENDE	.8790	.2150	3.861 M	DEPENDE	.0700	. 1568	. 2218	3280	. 3242 . 3209	5492.		.2670	.8790	0384	\$000 · /	0292	0887	101.0	ž 0 v.
		.8210	.3806	-3		.0460	.2743	3+76	.4365 .4409	. 4525	.4372		.4060	.5210	.0370	. 0384 - 02194	691:	.1516	.2683	3148
BETA (3)	4GE	.7790	.3500	BETA (1	¥GE	.0230	4178	.6065	. 6839	. 6539 . 6539	.5568		.4866	0677.	.0987	54.70.	. 1919. 1919.	.2339	. 2639 9639	. 2637.
.037 86	R FUSEL	.7290	. 1000	3.928 Bi	1:OPBITER FUSELAGE	.0083	.8859		!	.8639			0747.	.7290	.0764		100	0915	.0553	. 10+1
	1) (PRBT TE	.6530	0047	. W	1:398176	.0000	1.4039						1.4039	.6520	70-0.	65539. 11137. 1		5735	0:70	7500.
ALPHA (2)	SECTION (1) CRRITER FUSELAGE	X/LB	PH1 165.000 180.000	ALPHA : 31	SECTION:	X/LB	T. C.	3 C C		() () (() (,) (X/LB	CLJ.	100 000 000 000 000 000 000 000 000 000	85		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

86		3.0120		5740	0148	0120											3.0120		.5740	0221	0290	
PAGE		RN/L =		4970	0085	0226	1108 1014 1064	0575	0479	0481									0.4970	0107	0420	1092 0838 0665
	(XE8858)			3780	.0241	.0284	1356 1861 2166	1880	2152	2256							RN/L		.3780	.0281	.0080	1869 2216 1753
	CXEB	= 551.34		. 3010	.0497	.0140	1552 2093 4667	3718	2945	2650							551.9		.3010	.0513	9600.	2057 2668 5155
		۵.		.2510	.0714	.0392	2663 2750 2711	5138	· .	5155									.2510	. 0593	.0413	3077 3302 3451
		599.84		.2040	.0704	.050 .050 .050 .050	0403 0003	3309	3701	5124	1.0460		. 1448				599.84		.2040	4740.		.0626 0322 0961
1)	FUSELAGE	= 59		.1770				A 265	5946		1.0180		. 3588 . 2458				= 599		.1770			•
11-073-1	ORB B	ø		. 1660	.0550	1050	. 1979 . 2328 . 4340	. 7906	.8915	.8645	.9330			3257			o		. 1660	14.6	0734	. 1725 . 3401
B (AMES	-140A/B/C/R	1.2467	BLE CP	.1580					i.	. 35/5	.9600	1	1745 1707 2094 2094	2613			1.2467	E CP	.1580			
A - 0A148	-073(0A14B)	MACH =	NT VARIABLE	.1120	793	100.1	.1631 .1832 .3152	. 3989		.4274	.9210		1004 0399 1445 1492				μ	T VARIABLE	.1120	ម្រុក មា	.0638	.0756 .0810 .2238
PRESSURE DATA	=	. 192 M	DEPENDENT	.0700	1901	2021	. 2350 . 2257 . 2425	.2567		.2900	.8750		0373 0531 0582 1056 2024		. 0260 . 0260 . 0260		.251 MACH	DEPENDENT	.0700	. 1889	. 1725	.1579 .1477 .1657
	AMES	ņ		.0460	.2829 .775	3016	.3419 .3575 .3993	.424 6		.4086	.82.0	4	.0510 .0510 .0130 .0319	.0939	117	4537	 11	_	.0460	. 2848 . 2570	.2550	. 25:45 . 35+4
TABULATED		BETA (2)	AGE	.0230	4362 4362	.5316	.5775 .5836 .5798	.5387		.5023	.7790	000	. 1007 2448 0553	.2198	. 25.55 10.5	5803	1A (3)	æ	. 0230	.4163 .4056	.4532 .4700	2774. 2884. 2002.
		3.929 BI	CORBITER FUSELAGE	. 0080	.8876		.7226			.7380	.7230	1020	1854 1319	0286	.0317	0387	SS EETA	PUSELAGE	.090	.8773		.5737
8. 8.		# W	: 10RB1TE	. 0000	1.4097					1.4097	.65.0	0.00	9250. 9250. 1680.	0137	.0174	.0399	- 5.935	:) ORBITER	.0000	1.3959		
DATE 10 FEB		ALPHA (3)	SECTION	X/LB	PH1 . 356 . 20. 503	40.830 55.000	99.00.09.09.09.09.09.09.09.09.09.09.09.0		200 200 200 200 200 200 200 200 200 200	180.000	21.17%	17:E		2000 2000 2000 2000 2000 2000 2000 200	80.00	0.000	ñ .	SECTION (m 17 X	90	888	

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

		.5740							3.0105		.5740	.0525	.0716			
		.4970	0524	0541	-,0671		•		•		.4970	.0485	.0478	1515 1833 2901	1164	0830
		.3760	2162	2393	2256				RN/L		.3780	. 0950	.1187	0648 1295 4340	2300	- 21 th
		.3010	3253	2741	2850				551.57		.3010	¥160·	.0853	0598 0979 4017	C+7+	4061
		.2510	5031	5192	4545				•		.2510	.0981	.1270	1766 1983 2057	5563	5177
		.2040	2669	3825	4903	1.0460	. 1386 . 1386		599.67		.2040	.0981	1196	1082	2033	4203
		.1770		.5179		1.0180	.2585		# 599	•	.1770				ROCE	64.0 64.0 64.0 64.0 64.0 64.0 64.0 64.
		. 1660	.7248	.8368	.8529	0666.	2020	.3610	o		. 1660	.1165	. 1845 2007 2007 2007	. 25055. . 29189. . 4962.	.8565	.8830
	LE CP	.1580			. 8924	.9600	1770 1692 2400 2270	4230 2554 2235 3814	1.2463	LE CP	.1580					. 89.
	DEPENDENT VARIABLE	.1120	3448		+00h.	.9210	1002 0441 1730 1768 2578	3312 2102 1477 0535	MACH =	T VARIABLE	.1120	Ş	. 2213 . 2213	27.5% 27.5% 27.5%	.2323	
4.251	DEPENDEN	.0700	.2168		.2747	.8790	0349 0498 0774 1276	1886 1350 0443 0443	.855 MA	DEPENDENT	.0700	2600	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.3265 .3265 .3080 .2593	.1865	
j I		.0460	. 3885		.4129	.8210	.0398 .0566 .0195 .0155	0245 .2325 .2378 .3040	# £-		.0460	3816	\$855.	.4553 .4399 .3903	.3343	
BETA (3)	GE GE	.0230	498t.		.5060	.7790	.0941 .1111 .2059 0142	.2513 .2513 .2589 .2648	BETA (1)	સુ સ	.0230	70407	. 6095 . 6095	. 6530 . 6530 . 5598	.4535	
.933 BE	R FUSELA	.0080			.7143	.7290	.1988	0136 0579	38 996	R FUSELAGE	.0800	1.0059		.8135		
3.9	110RBITER FUSELAGE	.0000			1.3959	.6520	.0217 .0638 .0690 0247	.0110. .0112 .0008	= 7.9	1 1 OR9 1 TER	.0000	1.3705				
A. PHA (3)	SECTION (X/LB		162.000 165.000 169.000	8.4	X / LB			Alema (4)	SECTION (ਲ: ': 3 ×	. 00	0 0			

CATE :0 FEB 76 TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

(XE8858)

PAGE 887

		.5740					3.0105		.5740	.0519	.0514						
		.4970	0520						.4970	.533	.0373	2051 1735 1716	.0721	. 0483	0445		
		.378c	2557 -				RN/L		.3780	. 0883	.0838	1279 - 1843 - 3745 -	. 19t.	2058 -	2209 -		
		.3010	3217				551.57		.3010	.1030	.0741	136117394505	4253	3334	3010		
		.2510	5090				•		.2510	.1010	9111.	2188 2490 2701	5572	-, 4866	5512		
		.2040	5149	1.0460	.3496 .2179		599.67		.2040	.1093	1086	. 0961 . 0961 . 0261	0753	4128	5494	1.0460	.3458
		.1770		1.0180	.4601		± 595		.1770					5717		1.0180	8494. 3469
		. 1660	.7951	0666.	i i	3070 3070	o		.1660	.1162	1479	1956 1956 1974 1974 1974	6077.	.8337	.8224	.9993	
	BLE CP	.1580		.9600	0967 1147 1779 2107	1777 1503 3697	1.2463	ALE CP	.1580						1008	.9600	1000
•	NT VARIABLE	.1120	. 2335	. 5210	0176 .0475 1484 1722	2474 1508 0482	MACH =	IT VARTABLE	.1120	15.7	1884	.157 .157	.2218		.2485	.9210	3205
3.855	DEPENDENT	.0700	. 1633	.8790	.0470 .0300 0852 1668	1152 0838 .0222 .2483	.187 MA	DEPENDENT	.0700	. 2792 37.45	. 2832 2704	2220 2220 1951	.:573		1921	.8790	.0534
10-		.0460	.3288	.8210	. 1288 - 1321 - 1450 - 0216	.0782 .1713 .2158			.0460	3868	4017 7017	3528 3481 3394	10 4 2.		.3:91	.8210	.1383
BETA (1	4 GE	.0230	.3709	0677.	. 1757 . 1757 3237 2751	.1090 .0929 .0893 .1182	BETA (2)	IGE	.0230	ָּ קַּיָּ מָרְ	.6187	5774 1128 1008	.4321		.3984	.7790	#####################################
7.966 BE	:)CRBITER FUSELAGE	.0090	.6035	. 7290	.1376 2574 1979	1618 0360 0005	.970 BE	110RBITER FUSELAGE	.0080	1.0126		.6731			.5910	. 7293	.1502
ø	1) CRB1 TE	. 0000	1.3705	.6520	.1073 .1331 1367 0948	1748 0750 0395 0308	# 7.9	1.109B1TE	0000.	1.3766					3756	.6520	971:
ALPIPA (#)	SECTION (X/LB	PHI 190,000	X/LB	PH1 	1000 1000 1000 1000 1000 1000 1000 100	ALPHA (4)	SECTION (X/LB	Ŧ 'c	COL	ကြောင်းကို		្រុក ស្រួក ស្រ ស្រួក ស្រួក ស		in ×	14 C

BETA (2) =

ALPHA (4) = 7.970

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					3.0105		.5740		.0+05	. 0278										
					•		.4970		.0486	₩200.	2059	15g.	0485	0468	0646					
					PVL		.3780		€160.	.0585		2253	1899	2253	.2312					
					551.57		.3010		.1003	.0618		0,61.	3648 -	- 3079 -	3150 -					
					<u>.</u>		.2510		. 0929	.0861	2553	5333	5589	5360	6064					
	1.0460				599.67		.2040		. 0889	. 05420 6420	. 1007	0566	9414.	4205	5308	1.0460	.3481 .1966			
	1.0180				# 299		0771.						477	2000		1.0180	. 4565 . 3298			
	აგგი.		3912 3436		ø		.1660		1071	. 0996	- 343 - 343	3626	.7015	.8037	.8216	ე656 .			4539	
BLE CP	.9600	2195 2334 2853	2563 2420 1919		1.2463	R CP	.1580							į	. 8384	.9600	1218 1195 2585			2589
DEPENDENT VARIABLE	.9210	1881 2008 3169	2846 1910 1253		MACH	I VARIABLE	.1120		. 1222	1248	1 690.	1312	.1836		.2181	.9210	0305 .0266 2449		3558	
DEPENDE	.8790	1120 2256 2894	1572 0827 0186		4.250 3 .	DEPENDENT	.0700		.2665	2316	1605	1371	.1161		. 1699	.8790		3567 3567	2130	
	.8210	1006 0103 .0611	.0376 .2370 .4416	.4820	Ħ		.0460		.3847	.3340	# # # # # # # # # # # # # # # # # # #	2715	.3147		71+8.	.8210	.1456 .1456 0878	000		375
PGE PGE	.7790	3216 2606 0348	.1127 .1178 .1630	321	BETA (3)	IGE	.0230		.5368 .5195	. 5238	800 m	4354	.3960		+06£.	2677.	. 1922 - 3137 - 3134		.090B	·ru
IR FUSEL	.7290	2457 1919	0882	0023		110RBITER FUSELAGE	. 8080		. 9989		5,25,2				. 5694	.7290	1483 2874	7 50 7 7	0664	0041
1) ORB 1 TE	.6520	1359	0674 0155 0399	.03	= 7.89¥	110RB1TE	0000	!	1.354						1.3641	.6520	. 1000 . 1000 . 1170		0:21	5013
SECTION (1) ORBITER FUSELAGE	X/LB	PHI 70.000 90.000 105.000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80.000 80.000	ALPHA (4)	SECTION (87.X	.t (4	20.000 20.000	60.00 68.000	75.000 95.000	180,000	153,000	800 141 800 141 141	000 m: 1	87:X	6000 0000 0000 1 000 1 000	າ ຄາ ຄ ທານ ທານ ທາ ການ ຄາ	()()	ည

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				3.0114		.5740	. 1369	.1600							
						0.64.	. 1231	.1264	1517 1937	1522	1030	0625			
				FN/L		.3780	.1667	.1805	0576 :214 5578	2747	2376	2087			
				552.04		.3010	*! *! *	.1607	0500 0765 3835	5360	4502	3395			
				a .		.2510	. 1444	. 1986	1196 1710 2048		5564	5340		•	
		1.0460		599.32		.2040	. 1667	1688	. 2050 . 2006 . 2008	. 1087	4639	5484	1.0460	. 2438	
		1.0180		* 599		0771.				0	. 600.		1.0180	. 5480 . 5484	
		ე666 -		σ		. 1660	1924	200 200 200 200 200 200 200 200 200 200	. 1926 . 1926 . 2444 . 4672	.8435	.8506	.7643	0666.	i	- 3451 - 2902 - 2902
	RE CP	.9600	3941	1.2454	RE CP	.1580						1181.	.9600	0461 0672 1725 1670	3130 2198 2561 3906
	DEPENDENT VARIABLE	.9210	1333	MACH ==	IT VARIABLE	.1120		3048	00.4° 80.4° 80.8°	.1397		.1304	.9210	.0369 .1288 1354 1996 3686	2738 1630 1777 0231
4.250	DEPENDE	.8790	.1218	-3.838 M	DEPENDENT	.0700	.360?	#CC5.	. 3158 . 3158 . 3787	1311.		.0973	.8790	.1224 .0950 .1917 318	1815 1441 0775
a		.8210	.3937			.0460	6484.	. 00.1 0.400	. 2953 8534 8535 8535	. 2283		.2305	.8213	. 2233 - 2203 - 2203 - 10914	. 1883 . 3383 . 4520
BETA (3)	JGE JGE	.7790	. 1595	BETA (1)	IGE	.0230	.6554	7780	. 6650 . 6650 . 6774	.3383		98.	0677.	. 3171 . 3171 . 3171 . 3154 . 3554	######################################
	1) ORBITER FUSELAGE	.7290	. 5091		17 URBITER FUSELAGE	.0090	1.1150		.7496			.4611	.7290	.2750 3790	2041 2:25 0472
= 7.894	1) ORB! TE	.6520	0211 0352	= 11.923		.0000	1.3199					1.3199	.6520	. 190 5 . 2553 2539 1651	# B B B B B B B B B B B B B B B B B B B
ALPHA (4)	SECTION C	X/LB	PH1 165.000 180.000	ALPHA (5)	SECTION C	X/LB	PH1 .000	40.000 10.000	99. 808 78. 888 96. 888 188. 833	140.00.00 150.00 160.00	200 - 500 200 -	180.000	X/LB		

	3.0114		5740	1397	.1373								3.0114	•	3740	7151.	
	•		0.4970	1281	. 1089	0522 6455	0929	0460	11411				•		0764.	.1199	. 3052 3052 2496 1436
128	RN/L		.3780	.1607	.1498	1271 1822 5536	2201	1960	2 10 t 3))			R-1/L		.3780	.1678	1965 - 2370 - 3589 -
(XE8858)	552.04		.3010	. 1568	.1321	1226		3606	3218				552.04		.3010	11.	1744 1994 4703
	•		.2510	. 1369	.1551	1745 2232 2654		5197 -	- 5739 -	! :			•		3510	. 1392	2052 2673
	599.32		.2040	.1658	1170	. 1.605 0.005 0.005 0.005 0.005	•	- 6/44	5715 -	.0460	. 3954		32		2040	1560	.0523 .11!607640226
FUSELAGE	- 599		.1770					1 6 4 5	,	.0180	. 4048 . 4046		- 599.32		.1770	•	
ORB	o		.1660	.2035	2033	. 1831 . 1957 . 4254	.7421	.7816	7977.	. 9990		4323 3851	o		. 1660	1581	.0332 .0573 .1597
-140A/B/C/R	1.2454	LE CP	.1580						. 7868	.9600	0525 0663 2307 2929 31,4	.3371 .2866 .3868 .3868	ትይተያተ	۲۱ و	.1580		
	MACH	T VARIABL	.1120	e C	. 20 40 15 40 15 40	1564	.1302		. 1340	.9210	. 0354 . 1058 - 2678 - 2516	.3096 - .2273 - .1718 -	•	VARIABLE	.1120	1890	0441 0493 0493 0958
11-073(04148)	197 MA	DEPENDENT	.0700	.3722	3643	.2008 .2008 .1378	.0919		. 0985	.8790	. 1255 . 1021 . 2581 . 3008	. 2055 1379 . 0672 . 1658	59 MACH	DEPENDENT	0070		1874 1372 1197 0942
AMES			.0460	9 1 1 1	3987	.3414 .3071 .2531	. 2552		.2405	.8210	2179 2340 2038 1001	. 1528 - . 1578 - . 4177 -	F 4.259	8	.0460	∑ ::0	. 2311 . 2311 . 2117 . 1940
	TA (2)	냂	. 0230	.6695	.6896	.5014 .124 .4124	.3172		.2687	9677.	. 2991 . 3190 . 4248 . 3418	- 0741 - 0746 - 0776 - 0765 - 1099	É .	1.1	C230		
	SI BETA	FUSELA	. 0080	.1195		.6105			1011	. 7290	.3102 .3784 -	1301 0029 0219	BETA	FUSELAGE	. 0800	:059	· · · • • • • • • • • • • • • • • • • •
	11.931	110RBITER FUSELAGE	. 0000	. 3252 1					. 3252	.6520	. 2054 . 2054 . 2353 1352	0380 0667 0353	11.925	109B1 1EP		3120 1.	•
	ALPHA (5) .	SECTION (1	x, LB			ពុទ្ធសូន	្ត ស្រាស់	9 9 9 8 9 9 9 9 0 9 9 9 0 9 9 9 0 9 9 9 0 9 9 9	30.00	<u>@</u>	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		A 100 - 500 A	G 0 701.08	an i		

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TABULATED PRESSURE DATA - DAIHR (AMES 11-073-1)

AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE

BETA (3) =

) NO 1 10 36	1:09817	SECTION (1) OPBITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE CP	BLE CP								
ë G	0000.	.0080	. 0230	.0460	.070	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	0764.	5740
PH1 +0.000 50.000 51.000			. 2865	.2290	. 0587	. 1022		6099	¥824°	-, 1497	5942	0+0+	1839	0557	
								.7619	.4835	4532	But	3289	1928	0455	
300.08 80.000	1.3120	2604.	. 2636	.2557	. 1030	.1160	. 7539	.7893		5588	5250	3435	2179	06v7	
89 . 1	.6520	.7290	.7790	.8210	.8790	.9210	.9500	. 9990	1.0160	1.0460					
1Hd	ģ	f			1				!	!					
40.00G	1783	ילאלי.	3942	0.174. 0.455.	. 1133	0219	0679		. 539.	.3963					
707.07	212	46.29	# ·	1624	2500	1075	- 28 ¹ +4)	•					
113, 00 0	1153	2449	2655	1504	3336	3057	2845								
රුදු පුපු දෙද			0684	1021	4676	4580	3431								
20.000 20.000	0450	1044	.0326		2561	4001	5155	74447							
35.030			.0738		1536	2340	2915)							
50.03	0307	0392	.1371	Ette.	100;	184	2837								
65.000	1323		. 1029		. 1326	1731	4714.1								
60. ca a	0326	- C499	. 0669	1944.											

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AMES 11-073:0A148) -140A/8/C/R ORP FUSF' 40E

	55. 900 4. 900 1. 100	3.1805		0472. 07	130213	52 0487		2	61		70			
	***	FN/L		.4970	1013	1462	1994	25.	0461	039	0407			
IC DATA	SPOSPK L-ELVN PACH			.3780	130	1573	- 0841	1103	1694	1955	2276			
PARAMETRIC DATA	10.000 16.300 -4.000	• 707.67		.3010	1433	2007	1717	5392	3284	2798	2295			
	RUDDER = BOFLAP = R-ELVN =	<u>.</u>		.2510	0845	2388	3999	2872	5147	4185	1. 44St			
	581	80.009		.2040	0600	2485		0165	2886	* * * * * * * * * * * * * * * * * * * *	5636	1.0460	. 1622 . 0693	
		• 601		.1770					5463	.6029		1.0180	. 1333	
		O		. 1650	0207	1620	1182	¥007	.8342	.8836	.8205	.9990		4224 3239
		1.1006	BLE CP	.1580							.9807	.9600	3451 3788 2048 1786	1454 0410 0127 4004
	222	MACH .	IT VARIABLE	.1120	ć	0655	2. 4. 6. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	+933	.5786		.5753	.9210	3018 2373 1027 0982	0972 .0242 .0907 .1313
	5800 IN.	3.831 M	DEPENDENT	.0700	.0167	0115	3018	.+887	.5+88		.5367	.8790	- 2543 - 2541 - 0774 - 0443	
	. 1076.6800 . 0000 375.0000	,		OHED.			3309	.6071	.6442		.6133	.8210	1502 1426 .3536 .3510	
<u> 4</u>	XMRP YMRP ZMRP	BETA (1)	IGE	. 0230	. 1330	3513	. 6274 . 7056	7815	. 7824		. 7266	.7790	0676 0699 .2652 .3178	4 787 6 787 6 78 6 73 6 73 8 73
REFERENCE DATA	SS. N.		110RBITER FUSELAGE	. 0080	.5517		8793				9776	.7290	0216 .0655 .1208	. 2952 . 2952 . 2995
REFE	2590.0000 474.8000 935.0680 .0300	= -4.026		.0000	1.3175						1.3175	.6520	.0738 0433 .1340 .1543	1551. 1687 1788
	SPEF " SCALE "	ALPHA (1)	SECTION C	X/LB	PH1 . 000	40.000 8000	70.699 90.699	120.630	150.000	167.033 165.030 169.000	190.000	87/X	PH1 .000 .000 70.000 90.000 90.000	110.070 120.000 145.000 155.000 185.000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POCR

268		3.1805		.5740	0211	0064														3.1805		576	0307	.0189	
PAGE		•		6070	0959	1122	022v	0185	0133		0083						•			٠		. 1970	1023	0926	1.0.1 1.0.1 1.0.1 1.0.1 1.0.1
	ŝ	FN/L		.3780	1247	1436	1157		2272		2314									FRV.L		3780	1356	1432	1167 1212 2197
	(XE8828)	707.67		3010	- 1 XQ	1856	.3989	. 2841.	6922		2066									707.67		.3010	. 1.25	1883	3015 4557 6932
		•		.2510	0859	1892	4701	9000 -		}	5490									•		.2510	0900	1644	5236 5037 4834
		3.08		.2040	0461	1733	1038 0859 1972	2332 4207	2011	3	4803	1.0460	928	.069t						90.0		.2040	1040	1368	
-	FUSELAGE	- 800		.1770					. 5355			1.0180	.2689	.1037						- 600		0171.			
11-073-1	OAB B	a		. 1660	0066	0314	0184 .0524 .0758	7630		.8611	.8526	.9990				4589				O		.1660	0208	0608	. 0030 . 0030 . 038
(AMES	-140A/B/C/R	1.1005	רב כם	. 1580						000		.9609	3358		2185 2517		1372	1249		1.1006	d, 31	. 1533			
- 0A148	-073(0A148) -	MACH	IT VARIABL	.1120		0390 0321	. 1701	15.14.			. 5835	.9210	2990	- 2405	- 1441	-, 1899	0927	0367 . 0205		MACH .	IT VARIABL	.1120		0219 0219	. 1040 . 1162 . 3393
ESSURE DATA	==	203 MA	DEPENDENT	.0700	.0285	0118	. 2037 . 2037 . 2713	. Sebu			5448	.8790	2438	2459	0194 1060	-,1795	0885	. 0167 9919.		.281 MA	CEPENDENT	.0700	.0255	.0071	. 1916 . 1916 . 2772
<u>8</u>	AMES			.0460			. 2857 . 3570)		.6222	.8210	-, 1592	1460	3180			.5728	.6521	<i>;</i>		. 5461	.0838		1000 1000 1000 1000 1000 1000 1000 100
TABULATED		BETA (2)	냂	.0230	1426	3016	.5304 .5307 .5307	1306 7306			.7360	0677.	-,0802	0821	3690	4182	.4931	5133	1415	BETA (3)	ખુ	.0230	. 1332	\$ 55 P. C.	1000 1000 1000 1000 1000 1000 1000 100
			R FUSELAGE	.0080	5535.		7431				.9655	.7290	0317		1578	7455		. 30-tr	3170		R FUSELAGE	.0383	. 5345		5943
3 5		-3.894	110PBITER	0000.	1.3254						1.3254	.6520	0585	. 002:	1,463	3 2.01.		. 1835 1839	17.0	= -4.013	1) ORBITER	0000.	1608.1		
0ATE 10 FEB		ALPHA (11 :	SECTION (X/LB		20.03 40.003	55.000 70.000 30.000	2000 041 1400 000 1000 041	151.000 162.000 168.000	000.691		X/LB	1Hd	# CO CO	90.000 90.000 105.000	110.000	135.000	150.000	180.0mg	ALFHA (1)	SECTION (X/EB	~	1000 1000 1000 1000 1000	7

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		57.0										<u>\$</u>		5740	. 0366	.0356				
		OCE.	0312	0349	9±06							, i		0764.	- 3038 -	1083 -	0461 0500 0861	3571		
		.3780	2861	2559	2174							æ		3780	0877	- 4080	1366 1586 1827		- 2118	
		.3010	2665	2304	2296							- 707.43		.3010	0895	1180	1399 2335 5468	4163	- SEE	
		0152.	5276	5465	4192							·		.2510	0337	¥11:-	- 3829 - 3484 - 2935	6119	4932	
		.2040	4685	4228	5697	1.0460	.0414					600.03		.2040	0079	1108	. 0373 - 0150	0715	0264	
		077:	3543	. 4565		1.0180	.1150					= 600		0771.					. 5256 . 5586	
) ;		. 1660	.6751	.8153	.8401	0666.		9	4208			o		. 1660	0250	0272 0272	1974	.8124		.8554
• •	HE CP	.1580		;	.9176	.9600	3491 3581 2932	2767		2274 2274		1.1008	ABLE CP	.1580						.9393
	T VARIABLE	.1120	.4816		.5766	.9210	3108 2558 1780	2018 4355	30±0	1662	•	u Č	VAR	.1120	d 0 0	.0679	3208	5095.		
.281	DEPENDENT	.0700	6494		.5402	.8790	2490 2575 0082	0595 1702	2825	0557		852 MACH	DEPENDEN"	.0700	.0788	1074 1074	. 3556 . 3556 . 4337	.4538		
# #		. 0460	.5589		.5160	.8210	:576 1459	ωw		. 6092	.6158	ii M		.0940	694 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	04744 64543 76543	.5423		
BETA (3)	iGF.	. 0230	2699.		.7333	0677.	0751 0723 2217	. 3243	.3550	1689.	EBB .	TA (1)	Jg.	. 0230	. 2631 2631	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000 1000 1000 1000 1000 1000 1000 100			
	11ORBITER FUSELAGE	. 3083			.9516	.7290	0264	r	. 2334	.28+3	.3367	051 BETA	P FUSELAGE	.0380	7583.		. 8553			
F 10.013	1 1 OPB! TE	. 0300			1.3091	.6520	######################################		1.1883	1798		E)	1) CRBITEP	00001	:.3332					
ALPHA (1)	SECTION (S 1/X	PH. 140.000 155.000	188.900 188.900 199.000	G	ED	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				(C)	ALPHA : 21) NO. 10.5	ණ ට X	() (.	1 (2 (2		() (-		-15

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

DATE 10 FEB 76

(XE8829) AMES 11-073(04148) -1404/B/C/R ORB FUSELAGE -3.852 BETA

.051

ALPHA (2)

.5740 -.0110 57.50 -.0382 3.17 .4970 ある・ .4970 -.0997 -.0567 -.0513 -.0409 -.0909 -.0313 -. 0264 - 0230 Z .3780 -.2513 -.0845 -.1862 -.1814 -.1554 -.0967 .3780 -.2415 -.2056 33.5 707.43 .3010 -.2169 -.152 -.6092 -.3068 .3010 -. 1200 -.0859 - 2989 -.2783 -. 3875 -.5185 .2510 -.4403 -.4280 -.3848 -.0330 . 350 -.0930 -.518± -.6160 . 2040 -.6030 1.0460 .1910 -.5626 ...0084 -..0599 -..0234 -..0287 -..1273 -..1394 -..2200 .2040 1.0460 .2100 .0833 -.4973 600.03 .1770 .2860 .2142 1.0180 .173 .4413 .3250 .1804 1.0180 . 1660 .7766 -.4462 .9990 .0228 .0217 .0673 .0673 .1039 .1247 . 1660 .8290 9990 7376 .8120 ø -.2974 -.2318 -.2220 -.2609 . 1580 .9600 -.2518 -.2925 1.1008 .1580 .9600 . 928⁴ DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.1646 -.0704 -.0072 .191 MACH = .1120 .5012 .9210 -.2109 -.1391 -.1244 -.1351 -.1831 .1120 5115 .0212 .0655 .1483 .2050 .2367 -.1772 .9210 TTT#. -.1507 -.1738 .0397 .0064 -.0815 .0700 -.1427 -.1035 -.0123 -.2528 .0700 -.1502 .8790 0864 0508 0949 2301 2483 3489 .4401 4210 .+493 8790 -.0586 -.0501 .2674 .2645 .0460 .5119 .8210 .2956 .4290 .4081 .4519 -.0734 -.0635 .0460 .1782 .1656 .1913 .2797 .3191 .3612 .8210 5150 5200 BETA (2) .0230 .6089 .0216 .0294 .0514 .1476 .3883 .4476 .4471 .4246 .4093 . 0230 .7790 2815 2815 2.495 4.959 5432 5636 5964 6339 6513 .0207 .7790 SECTION 1 110RBITEM FUSELAGE SECTION 1 1) ORBITER FUSELAGE -.1474 . 0086 ..530 .7290 .0595 .0156 .1714 0800. -215. .7237 .6930 .8483 .7290 .0420 .053 .0000 1.3332 .0850 .0018 .0335 .0817 .0954 .0883 .0000 6520 .0397 .0897 .0465 1.3352 1.3352 .6520 ALPHA (2) PH1 180.000 20.000 25.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 40.000 40.000 X/LB A/LB X/LB Ŧ Ŧ X/LB

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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BETA (2) =

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ALPHA (2) =

DATE 10 FEB 76

	•		3.1794		.5740	0412	.0157						
					4970	1054	0927	0521 0363 0322	0372	0410	0457		
			3 RN/L		.3780	0903	0967	2062 1666 1713	2584	2732	245F		
			- 707.43		.3010	+060	1314	2846 3757 6656	3323	- 2994	3009		
			r.		.2510	0402	0862	4828 4941 4816	5915	6179	5037		
	1.0460		600.03		.2040	.0073		0789 0789 2178 2582	5456	5034	6120	1.0460	. 1917 . 1813
	1.0180		- 80		0771.				i	. 3410 . 4252		1.0180	. 1693
	ა666.	4723	o		. 1660	.0231	0.000	. 0548 . 0548 . 2221	.6562	.7785	. 7966	9880	8794 0154
BLE CP	.9600	2539 2349 2804 2757 1881 1752	1.1008	BLE CP	. 1580					.8736		.9600	. 2839 . 3839 . 3839 . 3839 . 2890
DEPENDENT VARIABLE	.9210	1505 1541 2092 2293 1434 0946	MACH	VT VARIABLE	.1120	0020	.0615	.1468 .1650 .3155	.4295		.5021	.9210	2165 1546 2177 2177 2753 3451 2550
DEPENDE	.8790	0016 0460 1313 1720 1001 0260	. 255	DEPENDENT	.0700	.0838	.0666	. 1359 . 1567 . 2497	.3750		.4401	.8790	150 1750 0494 1145 2058 2827 1938
	.8210	.2324 .2101 .1933 .2042 .4164 .4564			.0460	.1729	1572	. 2530 . 2530 . 3643	.4705		.5147	.8210	0658 0599 .2045 .1917 .199 .0732
AGE	.7790	.2875 .2875 .3322 .3801 .4073	BETA (3)	4GE	.0230	7517	. W.	. 4318 4753 . 4753	.5765		.6183	.7796	.0133 .0265 .1110 .1658 .2754 .3672
1)ORBITER FUSELAGE	. 7290	1503 0715 .0816 .1888	38 640.	R FUSEL	. 0080	. 6764		.5730			.8216	.7290	. 0568 - 1011 - 0152 - 1155
	.6520	.0514 .0514 .0518 .0938 .0949		1) ORB1 TE	. 0000	1.3190					1.3190	.6523	.0976 .0933 .0412 .0833 .1027
SECTION (X/LB	PHI 70.000 105.000 110.000 135.000 155.000 165.000	ALPHA (2)	SECTION (1) ORBITER FUSELAGE	X/LB	FH1 .000	40.000 80.000	90.000 120.000 120.000	156.000	162-000 168-000 168-000 174-000	ö	87/X	PH

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DATE 10 FEB	37 B		TABULATED	'EO PRES!	SURE DAT,	A - 0A14	PRESSURE DATA - DAINB (AMES 11-073-1	11-073-						PAGE	897
				AME	AMES 11-073(0A148)	(0A14B)	-140A/B/C/R	ORB B	FUSELAGE			(XEBB28)	(65		
ALPHM (2)	r	38 640.	BETA (3)	•	4.255										
SECTION (1.0RB11	SECTION (1) ORBITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
x/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0.30					
PH1 155.000 180.000	.1172	.2145	.3990 .4134	.4680	.1126	1297	4106								
ALPHA (3)	ø	3.965 BE	BETA (1)	# -3.	3.853 MA	MACH #	1.1009	o	= 600	600.17	0.	- 707.44	RN/L		3.1827
SECTION (110RB1TER	ER FUSELAGE	4GE		DEPENDENT	IT VARIABLE	BLE CP								
X/LB	.0000	. 0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
PH1 .000	1.3201	.8233	.3818	.2643	. 1764			.0961		.0466	.0170	0317	0230	0601	0431
40.000 40.000			. 4282 . 5745	.3335	.1516	. 1579		.0949		.0241 4110.	0149	0370	0035	0660	.0087
73.030			.6527	8,54. 8,144.	.3368	. 2534 - 2967		.1795		.0752 .0847	3286	1310	1385	1076	
90.000 120.000		.8296	.6570 .6386	.4595	.3633	. 3255		. 2298 .4195		. 0238	3449	1855	1997	1069	
150.000 150.000 151.000			.5611	.438t	.3510	.4387		.7879		0818 3272	6745	9264	2089	0783	
162.000 165.900 163.900							:	.8198	.5351	5492	6010	4501	2236	0639	
180.000	1.3201	.7199	.484 <i>2</i>	8714.	.3383	.4316	6006	.7345		6556	5844	3525	2465	0509	
X/LB	.6520	.7290	0611.	.8210	.8790	.9210	.9600	.9390	1.0180	1.0460					
1414 0000	.1639	.1734	.1266			1606	2371		.3701	.2368					
70.000 90.000 105.000	0508 0204 0204	2462 1799	. 3157 3157 0790 . 1420	. 1577 . 1577 . 1422 . 1469	1016 0206 0511	0780 1667 1813 2472	2539 2195 2630		.2732	. 1300					
1.0.000 120.000 135.000 150.000	0659 0469	0898	.3080 .3100			2427 1508 0758		4370 3769							
100.001	, to 0.0	582		4074		£010.	- #115								

4.6

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e B	7001 5	5	2	į	.03	.0031															3. IBC/		90.0	.0135	1 2 1
) (1020	. 1916	.0506	.0711	. 0970	0923	440	•	.0375	.0368								·		4020	0631	.0957	6480
=	2		2760		- 0333 -	. 0241 -	- 4402	•	•		- 5211 -	- 1753.										7.78U	•	•	
(XFRB50)	707.44	•		•	•	1	ľ					1								1	;		•	9.	1 28
Š	707		4010	3	0284	0522	210	2659	4627		3492	3301								707 Ltt		3010	0301	0747	2850
	α.		50		. 0203	0137	3779	4093	6760		5707	6683										2510	-	0285	4288
	500.17		0402	?	.0519 8450	.0286	. 02.k	0597	2126		5495	6750	1.0460		.2438 1189							.2040	.0469	.0178	•
USELAGE	90 #		.1770							2.4. 8.7.4.			0180		.3819 2665					* 600.17		.1770			• •
./R ORB F	ø		. 1660		. 0979	.1064	1395	.1619	₩804.		.7899	.7696	0666				4963			G		. 1660	. 0952	1018	.0955
-140A/B/C/R ORB FUSELAGE	1.1009	ZE CP	.1580									86/8.	.9600		2491	2610 2723 3215		2273	4050	. 1009	e G G	. 1580			
11-073(0A148)	MACH ==	IT VARIABLE	.1120		.0669	1353	492a.	3700	.4205			. 4441	.9210			1867 2022 2598		1998 -			VARIABLE	.1120	i C	1045 1045	.1616
ES 11-073	.193 M	DEPENDENT	.0700		.1762	. 1858	. 2385	. 2921	. 3237			.3464	.8790			0578 1100 1751		1278		249 MACH	DEPENDENT	.0700	. 1669 	1452 1452 1452	1462
AME	#		.0460		. 2630 . 2630	.3329	.3355	3990	.4247			.4170	.8210			. 1382 . 1228 . 1022		.3781	.5007	+		09+0.	2003	1016	. 03. 0.
	BETA (2)	AGE	. 0230		.4055	. 5605 . 5423	.5479	. 5586	.5276			.5021	.7790		.1357	1857 . 0218 . 1547	. 2410	3059	.3308	TA (3)	ъ,	. 0230	3769	11. 2 F. 2 C. 3	. 4 381
	3.964 BI	1) ORBITER FUSELAGE	. 6080		. 8260		5880					.7152	.7290		•	1739	0367	1690.	.0689	966 BETA	PUSELAGE	ວຣຄວ.	8103		1
	u		.0000		1.3250							1.3250	.6520			. 0288 	. 6100.	. C593	0170.	86 186	1) OP917ER	õcac.	1.3094		
	ALPHA (3)	SECTION (X/LB	Ë.	20.000 20.000	55.000	90.000	120.000 140.000	150.000	162.000 165.000	169.000	•	(/1.8	ĨΗa		90 000	180,000 180,000 186,000	150.00g	20 20 20 20 20 20 20 20 20 20 20 20 20 2	LPHA (3)	SECTION (27/	FH! .030	500 S	70, 679 97, 769

ATE 10 FEB "	76		TABULATED	O.	RESSURE DATA	4 - 0A149		(AMES 11-073-1	-			,		PAGE	868
				AMES	5 11-073(0A148)		-1+0A/B/C/R ORB		FUSELAGE			(XEBB28)	66		
.PHA (3) =	3.966		BETA (3)	u	4.249										
SECTION (1	1) CRB1 TER	R FUSELAGE	GE GE		DEPENDER	DEPENDENT VARIABLE	LE CP								
7LB	.0000	.0080	.0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.8510	.3010	3780	.4970	5740
PH1 140.000 150.000 151.000			¥884.	.3853	.285¥	.3814		.6363	235 235 235 235 235 235 235 235 235 235	3855 5884	6409	3838	.2238	0361	
162.000 165.000 169.000								7464		5633	6544	3528	2533	0460	
-	.309+	.6868	.5007	.4158	.3430	.4315	.8362	.7580	•	6730	5732	3601	25±3	0579	
1.8	.6520	.7290	.7790	.8210	.8790	.9210	0096	0666.	1.0190	1.0460					
•	. 1611 . 1731 . 0408 . 0057	. 1639 2236 1434	. 1353 - 1347 - 1347 - 1351	.0394 .1195 .0932 .0932	0942 0957 1536	1624 1110 2317 2484 3238	- 2432 - 2712 - 3372 - 3183	9 6 1	.2385	. 0926					
120.000 135.000 150.000 165.000	.0698 .0951 .0883	.0026	.3112 .3112 .3110 .3179	.2705 .2705 .2898 .3638	3007 2444 1485 .0805	3813 3037 2668 1782	4262 - - 3391 3311 - 4145	######################################							
LPHA (4) .	7.908		BETA (1)	#	-3.848 MA	MACH	1 0993	ø	- 599.26		•	708.35	REAL	•	3.1817
SECTION (1)	1) ORBITER	R FUSELAGE	3		DEPENDENT	IT VARIABLE	LE CP								
7LB .	0000	. 0080	. 0230	.0460	.0700	.1120	1580	.1660	.1770	.2040	933	.3010	.3780	0.64.	.5740
	1.2888	1446.	.5073	.3624	1959. 1977	888		.1380		1238	.0670	.0312	.0366	.0059	.0151
40.000 55.000			. 6604 4086 4086	+433+ -433+	3156			1758		1320	.0677	.0357	.0635	9859	.0563
20.000 120.000		.7761	. 5540 . 5240 . 5476	.4431 .4234 .3856	.3279 .3213 .2821	.3141 3571		16.4 18.5 14.3 14.3 14.3 14.3 14.3 14.3 14.3 14.3		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	2754 3185 3327	1189	1326 2019 5613	2217 2001 2673	
50.000			.4399	.3291	.2487	.3657		.7682		-	7302	5845	- 2503	1047	
162.000 163.000 17.000							1198	.7876	5.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00	6027	6767	5046	2347	0761	

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(XE8828) AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

		.5740					3.1817		.5740	.0174	#T30.						
		.4970	0577				•		.4970	0210.	0060	Will the state of	3690	0315	0463		
		.3780	2130				5 RN/L		.3780	.0366	6020.	1994 2626 3536	2108	2013	1999		
		.3010	395+				- 708.35		.3010	.0394	.0120	2482 5790	-,5353	4054	3789		
		.2510	6407				۰		.2510	.0738	.0516	3241 3769 3995	-,7332	6293	7100		
		.2040	7063	1.0460	. 1436		599.26		.2040	.1169	.1067	0076 *.0502	1.5013 1.5013	- 6005	7322	1.0460	. 2823 . 1405
		.1770		1.0180	.4521 .3247		# 20 20 4		0771.				1 0	825 835 84		1.0180	.3346
 		.1660	.6971	. 9990	4322	3235	σ		. 1660	1464	1658	1620	5069.	.7467	.7325	.9990	
	BLE CP	.1580		.9600	1878 2085 1653 2267	2182 1991 2227 4403	1.0993	RE CP	. 1580					į	ນ ດິນ ກີ	.9600	1753 5775
	DEPENDENT VARIABLE	.1120	.3685	.9210	1047 0136 1345 1448 1985	2252 1895 1426 0522	MACH =	VT VARIABLE	1120	e de la companya de l	07.00.	2300 2400 5700 5700	3676		.3827	323.6	1015 0159
3.848	DEPENDE	.0700	. 2492	.8790	0096 0457 0223 0697 1312	2229 1899 0886 . 1438	.189 M	DEPENDENT	.0700	. 255.7 404.0	0 to 00 to 0	in Nie im All in Nie in ter	. 2291		. 2504	.8750	1000 1000 1
3		.0460	.3123	.8210	.0949 .1157 .0163 .0289	. 1176 . 3399 . 4125	u		. 04 60	9767. 5887	50 00000000000000000000000000000000000	458 458 458 458 458 458 458 458 458 458	88 51 51		(1) (1) (1)	3,00	e de
BETA (1	AGE	. 0230	.3561	.7790	.2009 .2231 3869 2846 .0203	.1586 .1578 .1734 .2270	BETA (2)	JOE 10E	.0230	un ve un ve	្រុក មួយ មួយ មួយ មួយ មួយ	14 to 15 to 16 to	335 s.		177 177		(5 (6) (5 (6)
7.908 B	ER FUSEL	.0080	.5731	.7290	. 2552 3255 2546	1799	38 216	R FUSELAGE	2800	ru III Ui		iei iei			(t) (t) (t)	3620	6.7 1.7 1.7
	1) ORB1 T	.0000	1.2888	.6520		1516 0062 .0517	t. 0.	LIGRETTER	C) C) C)	1,,					iv Eu	(i)	for many the state of the state
ALPhiA (4)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 180.000	X/LB	PHI - 000 - 40.000 - 70.000 - 90.000 - 105.000	186.000 186.000 185.000 185.000	ALPHA (4)	SECTION ((n) 2 f 3c						<u>, e</u>	3·	

(XEBB23)

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

3.1817 -. 1815 -. 1465 -. 0931 .4970 .0052 -.0385 -.0497 -.0464 -.0604 .3780 -.2715 -.3283 -.2490 .0351 -.0105 -. 1983 -.2035 -.2236 708.35 .3010 -.0239 -.2819 -.3150 -.6293 .0339 -.4068 -.3945 -.44D# -.4348 -.4348 -.4653 .8510 .0639 .0156 -.6752 -.6332 -.7311 . 1089 . 0821 . 0719 . 0096 . . 0832 . . 1844 . . 3206 1.0460 .2040 -. 7257 -.6122 1.0460 . 1270 .9990 1.0180 .1770 .3249 .3788 1.0180 .4509 . 1660 .1441 .1318 .1419 .1051 .1301 .7122 .7209 .9990 6181 0 -.3189 -.2967 -.2769 .9600 4.247 MACH = 1.0993 .1580 DEPENDENT VARIABLE CP . 7956 .9600 -.1917 -.2239 -.3335 -.3440 -.4192 DEPENDENT VARIABLE CP -.1779 -.1972 -.2584 .9210 -.3279 -.2677 -.2187 -.1569 .1120 1402 1629 1412 1649 1961 2996 3379 9210 -.1111 -.0506 -.2690 -.2930 -.3972 -.3507 -.3212 3703 -.0813 -.1592 -.2518 -.2689 -.1772 -.1109 .8790 .0700 .2508 .2149 .2161 .1766 .1353 -.0133 -.0381 -.1562 -.2273 -.3017 -.3416 -.2621 -.1347 .1910 23:0 .8790 .0397 .0259 .0560 .0782 .3392 .5317 5474 .0918 .1105 .0230 -.0164 .3643 .3303 .3149 .2655 .2364 .2388 .2388 2946 .0460 3184 .8210 -.0378 .2950 .4214 BETA (3) .7790 .1894 .1894 .2313 .2914 .3101 . 0230 .1994 .2110 -.3379 -.1237 3780 .3834 .7796 .1095 .2353. BETA SECTION (1) ORBITER FUSELAGE (1) ORBITER FUSELAGE . 7290 -.3420 -.1121 .0080 -.0261 .9329 .4875 .0021 545 .7293 .24B4 -.3156 .0019 -.0775 7.912 7.911 .6520 -.1105 .0501 .0829 .0775 .0330 .0000 1.2775 .25605 .0897 .0299 EBHO. .6520 . PT5 5563 ALPHA (4) ALPHA (4) PH1 70,000 90,000 110,000 120,000 135,000 150,000 150,000 SECTION 20.000 40.000 55.000 70.000 90.000 1120.000 1150.000 1151.000 1151.000 1151.000 1151.000 1151.000 1151.000 1151.000 Ë

.5740

(XE8859)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

		1.0460
		1.0180
		0886.
	ורב כם	.9600
	VARIAB	.9210 .9600
4.247	DEPENDENT VARIABLE CP	.8790
.T #		.8210
TA (3) =	SE SE	0128. 0677.
II BETA	PUSELA	
7.9	1 ORBITE	.6520 .7290
4.PHA (4) = 7.911	SECTION (1) ORBITER FUSELAGE	גירפ

		3.1878		5740	.2236	.2539							
		ij		.4970	. 1962	.0948	2357 2838 3424	1375	1037	(AB)			
		RN/L		.3780	.1166	.1386	1226 1905 7301	2903	- 5,5,435	. 1931			
		710.00		.3010	.1113	¥0.11.	1143 1470 5167	6825 -	- 5496 -	4261			
		• Q.		.2510	.1270	.1367	2334 3018 3468	7842 -	7347 -	5965 -			
1.0460		598.33		.2040	. 1853	2083	. 1557 . 1534 . 0146	0861 2180	6580	7506	1.0450	7010.	
1.0180		* 590		.1770					£774.		1.0180	0204°	
.9990		ø		.1660	.2039 14	200 200 200 200 200 200 200 200 200 200	. 3965	.7491	.7550	,6598	. 5990		3780 3780
.9600	4402	1.0972	RE CP	.1580						. 80 78	.9600	139% 1859 3428 3376	3046 3010 4562
.9210	2530	MACH =	DEPENDENT VARIABLE	.1120	# 60 7	.3139	. 2881 . 2834 . 2940	. 3052		31.05	व्याद्य	1.000 P. 1.0	7.8786 7.8174 7.8144
.8790	÷110.	-3.832 M	DEPENDER	.0700	.3556	14071	.3123 .2827 .1847	1327			35.65	0.000 000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.	9050 - 1508 - 1508
.8210	.4860	# E		.0460	.4661 .4926		.3868 .3868 .2813	.2174		2:93	100	0 0 - 0 - 11 5 0 - 0 - 11 5 0 7 M 0	200 IV.
.7790	. 2588	BETA (1)	GE	. 0230	.6343	7577	.5694 .5694 .4432	.3140		6.00	r _y ,		500 00 00 00 00 00 00 00 00 00 00 00 00
. 7290	7600.		R FUSELA	.0080	1.0528		.7030			en er er	Co Co Co Co	G F G G G G G G G G G G G G G G G G G G	
.6520	.0894 .0666	₹ 11.969	1) ORBITE	.0000	1.2314					ie,	1951	to to to	60 0000 00 0000 00 0000 00 0000
IVLB	PHI 165.000 180.000	LPHA (5)	SECTION (1) ORBITER FUSELAGE	71.8	PHI .000 20.000	40.000 55.000	70.000 90.000 180.000	000 001 000 001 000 001	10: 10: 10: 10: 10: 10: 10: 10: 10: 10:	. 8	•		

903		3.1878		.5740	.1967	.2031								3.1878		.5740	1731	.1575	
PAGE		•		.4970	.0983	.0706	3236 3010 2053	0945	0+39	0380				•		.4970	**60.	.0375	. 3459 - 2457 - 1505
	359)	D FRN/L		.3780	.1167	1860.	2012 2650 6886	* *****	1922	1799						.3780	.1112	9640.	2779 3296 3462
	(XE8859)	- 710.00		.3010	.1125	.0763	2010 2288 5628	5940	894t-	4109			ļ	710.00		.3010	<u>#</u>	.0308	2771 3020 6133
		۵.		.2510	.1367	.0989	2881 3579 4074	779 ⁴	6755	7323				<u>.</u>		.2510	.1347	.0513	3287 4046 4638
		598.33		.2040	.1890	1734	. 0423 - 0666	1899	6419	7669	1.0460	04: 99 		598.33		.2040	1766	1094	. 0699 1469
_	FUSELAGE	= 59(.1770				.4051	.4283		1.0180	. 3926 . 3926		# 290		.1770			
11-073-	ORB	O		. 1660	.2107	2209.	. 1930 . 1930 . 3561	.6763	.7061	.6912	0666.	. 346. 44.5.		a		. 11560	.2050	1687	. 1095 . 1427 . 2980
(AMES	-140A/B/C/R	1.0972	PLE CP	.1580						.7733	.9600	1197 1698 2671 3670	4363 4363	1.0972	RE CP	. 1580			
1 - 0A148	11-073(0A148)	MACH *	IT VARIABLE	.1120	i	2633	. 2918 . 2918 . 2918	.3110		.3285	.9210	0349 .0554 2200 2284 3377	2057	MACH	IT VARIABLE	.1120	9515.	1925	. 1543 . 1874 . 2718
SURE DATA		.H 761.	DEPENDENT	.0700	.3576	. 3486 . 3486 . 376	. 1968 . 1369	.1218		.1469	.8790		33	.258 MA	DEPENDENT	.0700	.3410	. 1623	. 1104
TED PRESSURE	AMES	n		.0460	.4730	.4621 14621	.3223 .2892 .2400	.2296		.2024	.8210	. 1840 - 1731 - 0853 - 0083 . 0083	.5760	+		. 0469	.4579	.393+	. 2212 . 2028 . 1986
TABULATED		BETA (2)	VGE	.0230	.6387	.6536	.5125 .4690 .3887	.3059		.2647	.7790			BETA (3)	Je Je	. 0230	.5978	15477	3901 3681 3481
			1) ORBITER FUSELAGE	.0080	1.0578		.5693			9604.	.7290	.3320 4202 3046 1376	F + 10	.865 BE	IR FUSEL AGE	. 8080	1.0422		.4209
3 76		= 11.872	1.0RB1TE	.0000	1.2398					1.2338	.6520	.3216 .3360 1246 0730	. 0957 . 0957 . 1758	#	1.10981TER	. 3003	1.2263		
DATE 10 FEB		ALPHA (5)	SECTION (X/LB	PH1 . 000	40.000 10.000	99.060 99.000 120.000	140.000 150.000 151.000	162.000	1 74 . 000	X/LB	PHI .000 .000 70.000 90.000 110.000 125.000		ALFHA (5)	SECT.ON	X/LB	7 H? 503.05	49.000 55.000	76.000 90.000 120.000

DATE 10 FEB 76

ALPHA (5) .

	3010 .3780 .4970 .5740	496318310590	419016820505	434819370628											
	8.00	7768	6953	6848											
	0402.	*.2956 5945	6477	7622	1.0460	.3129	1448								
	0771.	.3182	.3603		1.0180	.5204	.3613								
	.1660	.5936	.6833	.6874	.9990						5299 	7.5299 7.4915	5299 4915	7.5299 7.4915	≖.5299 ≖.4915
BLE CP	. 1580		:	.7596	.9600	1409	1785	2000		3771	3771	5704	5704 3901	5704 3901 4028	5704 5901 4028
DEPENDENT VARIABLE CP	.1120	.2980		.3170	.9210	0608	0190	6175		3654	3654	3654 4925	4825 4825 3588	3654 4925 3349	3654 4925 3349
DEPENDE	.0700	.070		.1175	.8790	.0478	. 5199 8019	3355		5327					
	.0460	.2113		.2357	.8210	. 1532	.1733	- 1259		יי עמעע					
AGE	.0230	9173.		.2664	.7790	.2556	. 2828 . 45.25	3273		10111					
ER FUSEL.	.0080			.3816	.7290	.3263		2327				401.1			
1.10RB1T[. 0000			1.2263	.6520	.3126	0.00 m					(**) (*) (*)			
SECTION (1) ORBITER FUSELAGE	X/LB	PHI 140.000 150.000 151.000	165.000 169.000	180.000	(/LB				100 . 000 to	010	000 PC	88 C			

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

PAGE 905

(XEBBEO) (05 AUG 75)	PARAMETRIC DATA
AMES 11-073(OA148) -140A/B/C/R ORB FUSELAGE	
	REFERENCE DATA

	55.000 4.000 .900	3.5631		.5740	0137	- 24														
		•		0.970	.0055	0384	1981	.0976	ָם נוס פרים בי	.0453	.0405	.0340								
C DATA	SPOBRK L-ELVN MACH	RN/L		.3780	0322	0825	, n617	40+0 0-22	1050.	. 02 30	.016¥	.0093								
PARAMETRIC DATA	10.000 16.300 -4.000	1060.7		.3010	0734	1309	0207	0533	60.00	 C) QQ	0266	0160								
•	RUDDER = BOFLAP = R-ELYN =	a		.2510	1798	3678	-, 7207			90CB	7746	7681								
	587	598.77		.2040	2190	4363	- 2851	3036	- 1595	co33	8341	9416	1.0460	980	0010					
		- 596		.1770						.3291			1.0180		.1715					
		σ		.1660	2140	3578 3578	1932	0712	5101	9000	.7161	.6384	0666.				3535	2616		
		.89803	BLE CP	.1580							Š	Jesan.	.9600	1000	0609	1044	1756	2026	0633	3076
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ANES 11-0731041481 -140A/B/C/R ORB FUSELAGE

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				1.0460			598.75		.2040	1730	2129 2753	3265 4969 5607	7517	8816	-1.0600	1.0460	.0991	
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AMES 11-073-1	C/R ORB			ე666.		3529 2720	o		0.18.0	1549	177	1733	.4558	.5920	.6115	. 9990		3626 2989
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A - 0A148	(OA148)		DEPENDENT VARIABLE	.9210	1610 1877 2271	2912 2117 1966 1916	MACH =	NT VARIABLE	.1120	1173	1159	0408 0296 .1296	.2536		.3382	.9210	2283 2383 2985 3454	5990 4981 4597
PRESSURE DATA	AMES 11-073(0A148)	.18	DEPENDE	.8790	2430 3110 4291	4897 3521 2705 0759	.260	DEPENDENT	.0700	0886	- 1007	0234 0123	.2199		. 2882	.8790	3515 2992 3146 3865	6374 5225 3933
LATED PAES	AME			.8210	.1005 .1005	.4010 .4010 .4614	<i>*</i>		.0460	0038	0189	. 0848 . 2652	.3222		.3604	.8210	2700 2500 .0278 .0382	.1000 .3447 .4386
TABULA		BETA (2)	AGE	.7790	0356 .0336 .1062	.1766 .2553. 8275. 8275.	BETA (3)	AGE	. 0230	.0636	. 1565 347	.3071 .3798	.4267		T574.	.7790	- 1442 - 1352 - 6513 - 0052	. 1216 . 2226 . 2497
		056 B	110RBITER FUSELAGE	.7290	2035	0034 .0728	.048 B	ER FUSELAGE	. 0060	.5004		4115			.6812	.7290	1845 1059	0185
B 76				.6520	1148	0213 .0132 .0215 .0126	u	110RB1TER	.0000	1.1936					1.1936	.6520	0308 0435 1107	0139
DATE 10 FEB		ALPHA (2)	SECTION (X/LB	PH1 70.000 90.000 105.000	110.000 120.000 135.000 150.000 165.000	ALPHA (2)	SECTION (X/LB	1H9 .000	40.000	70.000 90.000 120.000	140.000 150.000 151.000	1647, 000 1655, 000 169, 000	180.000	X/LB	PH1 .000 .000 70,000 90,000	120.000 125.000 135.000

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SECTION (1) ORBITER FUSELAGE

ALPHA (2) =

à		•	AME	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	- (841 4 0	·140A/B/(1/R ORB +	FUSELAGE		(XE8880)
	4 4	_	s) = 4.260	.260						
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				.4970	.0675	. 0587	.0261 .0175 0543	0202	0112	.000				
		PRVL		.3780	.0037	. 0228	0261 0296 0873	.0056	.0356	£240.				
		- 1061.2		.3010	0546	0391	1518 2021 3072	4216	4043	2569				
		۵		25.0	1229	1674	5724 6225 6159	9422	8049	9021				
1.0460		597.99		.2040	1047	1336	1310 2076 2565	3520 4540	9628	-1.0947	1.0460	.1113		
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.8790	1777	-3.861 M	DEPENDE	.0700	.0189 8500	0649	. 2047 . 2047	.2110		. 1995	.9790			. 2889 2889 2887 0880
.8210	.4272	n		.0460	.1010	1690	.3107 .3310	\$882°		.c.32	.8210	:575 :768 -::164		2405 .1863 .3480
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5740 2866 .1126 .5740 .0776 1062 16 PAGE .4970 .0001 .0096 .0087 .0700 .0076 0800 0587 .0073 .4970 0486 5000 5010 0000 .3687 Z Z ž .3780 -.0310 -.0197 -.0159 .0087 . 0258 .0438 .0397 .0355 .3780 5110. .0114 -.0311 (XE8860) 1061.2 1061.2 .3010 -.1479 -.0334 -.0568 -.3775 -.1605 -. 21g -.1414 -.1563 -.2599 .3010 -.0803 -.0591 -. 1228 .2510 -.6576 -.7227 -.6993 -. 1834 1.9450 -1.0307 -.9328 -.1216 -.7223 -.7941 -.7754 .2510 -.2094 ۵. -.0949 -.1202 -.1342 -.1607 -.2012 -.3105 -.3856 -.5087 .2040 -1.0117 -.9779 -.1102 -.1450 -.2021 -.2596 -.4092 1.0460 .2040 597.99 597.99 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .1770 . 1865 . 2400 1.0180 .3447 .2094 .1770 TABULATED PRESSURE DATA - DA148 (AMES 11-073-1) -.0845 -.0947 -.0861 -.0689 -.0701 -.0506 . 1660 .6046 .5816 .9990 5191 -.3394 .1660 -.0870 -.0997 -.0981 -.1274 -.1304 -.1304 0 .1580 .5600 -.0170 -.0486 -.1167 -.1448 .725t. DEPENDENT VARIABLE CP .1580 .89723 DEPENDENT VARIABLE CP .1120 ..0647 ..0109 .0312 .0591 .0801 -.2379 -.1938 -.1368 -.1771 .2542 .2769 .9210 -.2753 -.2103 -.2148 -.2143 -.0669 -.0418 -.0293 -.0050 .0076 .1120 4.252 MACH .0700 .0190 .0037 .0384 .0942 .0881 .0980 -.2230 -.2072 -.2042 -.2881 -.5198 -.4082 -.3008 -.1193 .1817 .2025 .8790 .0700 .0084 -.0263 -.0366 -.0015 -.0015 .0649 .1051 .1355 .1355 .1855 .1871 .2063 .0460 5275. .8210 ..1903 ...771 .0594 .0714 .18950 .3950 .4653 2791 1037 0788 0833 0873 0805 0905 1961 4298 .0750 BETA (3) .0230 .2215 .2437 .3433 .3911 .3999 .4124 3843 -.0736 -.0566 -.1214 -.0232 3554 .7790 .170% .170% .1984 .2126 .2226 2008 2008 2559 2779 2779 7793 7793 . 0230 BETA SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0080 .6710 .5376 .0000 -.4292 .5650 .7290 .0186 -. 1226 -.0154 .0090 3793 .6524 4.019 w.gr .0000 .0568 .0454 -.2277 -.1687 1.2044 .6520 -.0547 1.2044 -. 11144 . 0000 1.1888 ALPHA (3) ALPHA (3) 20.000 55.000 70.100 70 .000 70.000 90.000 105.000 110.000 110.000 110.000 110.000 110.000 20.000 70.000 70.000 70.000 X/LB X/LB ā 87/X

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

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BETA (3) =

3.944

ALPHA (3) =

(XEBB60)

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	2010	. 318	2104	2211				1059.3		.3010	0095	. 0093	- 1823 - 2490 - 5055	183	5018
	<u> </u>	-1.0822	7590	9453						.8510	. 0596	0748	. 4965 . 6072		6441
	מאטע פ		9839	-1.1079	1.0450	.1189		599.30		. 2040	0308			•	.0211
	.1770				0910.1	.2081		s 599		.1770	, ,	• •	•••		- 2669
	. 1660	1484·	.5569	2/00.	0666.		2762	œ		. 1660	~.0132 ~.0094	. 0228 . 0398	.0303 .0507 .2028	.5819	.5972
BLE CY	.1580		.6703	9500		0173 0565 1596 1854 2093	2526 1931 1570 2830	.85903	LE CP	.1580	• •				.7005
DEPENDENT VARIABLE CH	.1120	. 2094	מאמני	9210		2551 2756 2853 3518	6247 5189 4979	MACH	T VARIABLE	.1120	.0284	. 1034 . 1416	.1585 .1585	.2033	
DEPENDE	.0700	. 1438	6	.8790		2351 2461 3765 4075	6245 5332 4358 2315	857 MA	DEPENCENT	3070.	.1167	. 1838	.1970	.1115	
	.0460	.2399	2463	.8210		2000 1779 0045 0041	.3982 .3215 .4339	ή. Ψ		.0460	. 23.03 2033 2033	33314	. 2901 . 2901 . 2424	.1976	
AGE	.0230	. 3322	.3547	.7790		0700 .0599 1351 0617	4199 4199 4199 4199 4199 4199 4199 4199	ا	55	09 PD 0 .	.3623	0,440	. 4809 . 4809 . 3997	.2389	
귏	-			0		رت د~ αο	ທູ່ທູ່ພ	35.1	FUSELAGE	080	đ,		Ω.		
ER FU	. 3080		#1 #G.	. 7290	ļ	-, 1887 -, 1887 -, 1878	- 1162 - 0052 0235	tu.		90	1 0 0 0 0		. 6299		
(1) OPBITER FUSELAGE	. 0000 .		1.1888 .541	.6520 .729		. 075 40	0 0		NORBITER FLA	00 000J:			. 629		

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ט יבש יס	TABULATED PRESSURE DATA - CA148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
J	ביוח ובשילם	

l			5740	!				3. S.S.S.		.5740	. 1. 56	.1776						
			0.4970	,500·						0.4970	. 1266	. 1049	0170 0226 0597	9410.	.007	0076		
(20)			.3780	1150				BNA		.3780	.0524	.0520	08740768 -		.0253	.0175		
(XEBB60)			.3010	9+2+-				1059.3		.3010	0127	0423	211422963283 -	4691 -	.4316	.3227		
			.2510	6564						.2510	0567	1118	5944 6918 7103	6400	- 6943 -	6522 -		
			.2040	9264	1.0460	.0317		599.30		.2040	0319	0524		5017	-1.0387	-1.1314	1.0460	.0103
FUSELAGE			.1770		1.0180	.3788 .2455		. 590		.1770					. 2043	•	1.0180	.3828
			. 1660	096 ₄ .	.9990		ታ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ	o		. 1660	0093 0154	- 0000+ 0000+ 0000+	0391 0263 .1345	.4982	.5538	.5305	0666.	
-140A/B/C/R ORB		BLE CP	.1580		.9600	0316 0907 1070 1555	1735 1697 1514 2822	.89903	RE CP	.1580					9	6000	.9600	0353
\$(0A14B)		DEPENDENT VARIABLE	.1120	. 1993	.9210	2891 2297 1409 1851	2379 1774 1466 1174	MACH	IT VARIABLE	.1120	.028 48	.0704	.0773 .0846 .1646	. 1915		.2135	.9210	2398
AMES 11-073(0A148)	-3.857	DEPENDE	.0700	. 1011	.8790	1715 1698 1322 1693	3242 3320 2591 0374	.194 m	DEPENDENT	.0700	. 1215	. 1395 1324	. 0929 . 0999	.0870		.1026	.8790	1806
AME	1 = 1		.0460	.1696	.8210	1163 0944 .0915 .0741	.3163			.0460	. 2261 . 2246	. 2258	. 1929 . 1868 . 1835	.1820		.1494	.8210	11 62 0924
	BETA (1	AGE	. 0230	.2115	0677.	.0051 .0289 1172 0376	. 1055 . 1083 . 1083 . 1069	BETA (2)	iGE	. 0230	.3706 .3881	.4428 .4283	.3947 .3767 .3315	.2702		.2347	0677.	9119.
	9.020 B	1)ORBITER FUSELAGE	. 0080	.4171	. 7290	.0843 5711 4872	2398		R FUSELAGE	.0080	.8119		.4859			.4065	.7290	. 089 4
	ei			1.1601	.6520	. 1368 . 1427 3108 2539	3004 1467 1281 1121	± 8.028	11098! TER	. 0000	1.1666					1.1666	.6520	8741 1.
	ALPHA (4)	SECTION	X/LB	PH: 1-30.000	X/LB	PHI .000 .000 70.000 900.000 100.000	120.000 135.000 159.000 165.000	ALPHA (4)	SECTIO, (X.LB	PH1 20.000	55.000 55.000	90.000 120.000 140.000	150.000	162.000 165.000 159.000 174.000	190.033	X/L6	9H1 .003 40.004

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A.PHA (4) = 8.028 BETA (2) =

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				3.5654		.5740	. 1366	. 1576							
						07€₽.	. 1158	. 0801	0423 0181 0153	9400°	1700.	-, 0069			
				FR/L		.3780	.0487	.0198	1012 0728 0624	0480	0560	0582			
				= 1059.3		.3010	0160	0993	1964 2021 3165	+4344	- 3966	4287			
				С.		9165	CB24	1627	6539 7636 7594	6666	7274	7119			
	1.0460			599.30		.2040	0345 0000	0967	2138 3383 4760	6454	-1.0485	-1.0721	1.0460	. 1295 0666	
	1.0180			= 599		0771.					.0804 .1288 -	1	1.0180	.3870	
	ა666.	-, 3482 -, 2546		ø		. 1660	0094	0344 0344	0995 0995 0873	.4135	5170	. 5243	0666.		3599 2792
RE CP	.9600	1483 1707 2170 2289 2073	2780	.89903	XE CP	.1580						. 6264	.9600	0318 0854 1815 2177	2737 2411 2077
DEPENDENT VARIABLE	.9210	2060 2966 3075 3516 258	2433	MACH =	DEPENDENT VARIABLE	. 1120	ā	0136	. 0060 . 02:8 . 1229	.1621		.1953	.9210	2959 2411 3404 3583	5074 - ::240 4638
DEPENDE	.8790	2084 3750 4888 4214 3379	1439	4.248 M	DEPENDEN	.0700	.1125	.0782	. 000. 900. 800. 8750.	£690°.		.0986	.8790	1886 1924 2757 3580	5493 4466 3712
	.8210	.0273 .0187 .0209 .0880 .3034	. 3895	j n		.0460	2179	1001 1001	. GEBS . GBBS . 1 : 13	100 m		1640	.6210	1255 0999 0590 0590	.0074 .2595 .3345
હ્યુ	.7790	1794 0880 0099 .0238 .0932	. 1333	BETA (3)	સુ	2230	.3542	#### #### ####	5475 1015 1016	3750		837.89	0612		8.087. 0.087. 0.08.
1)ORBITER FUSELAGE	. 7290	6171 4677 2362 1172	0629		R FUSELA	0300	1980 1		.3322			3840	.729c	.0962	22250353
	.6520	E. W. S. 17.	n n	₹3.624	1) ORBITER FUSELAGE	. 0000	1.1501					G G	02001		1573
SECTION (79.000 90.000 105.000 110.000 135.000	000 0000	PHA (4)	SECTION (PH!	.• . :	3 0 0 0 0 3 0 0 0 3 0 0 1	. 1 C	411.00	() (, (, ,)		6000000	១៩២ ១ ១៩២ ១ ១៩២ ១

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0A148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
ATED PRESSURE DATA - OA	AMES 11-073(0A148
ATE	

				3.5649		.5740	.2130	886										
						0.4970	. 1760	.:788	0386 0536 2586	0881	0437	0083						
				RN/L		.3780	.0981	.1155	1501		2251	2186						
				1059.0		.3010	.0439	.0650	1983 - 2372 -		5664	5550 -						
						.2510	. 0253	.0111	4270 - 5492 - 6667 -		5769 -	6160 -						
		1.0460		a đ		. 2040	.0508	0598		3798	8621 -	- 6993	1.0460	.1256	. 0253			
		1.0180		# 599.94		.1770		•			.2339	•	1.0180 1	3+04·				
		ე666.		ø		. 1660	.0734	36.136	.0485 .0542 .1837	.5594	.5631	5454·	. 9990			3597		
	RE CP	.9600	2738	.89963	SLE CP	.1580						. 65 1 2	.9600	0620	1235 1701 1966 2410			2929
	DEPENDENT VARIABLE	.9210	4201	MACH	DEPENDENT VARIABLE	.1120	ō	1968	.1480 .1385 .1350	.1371		0441.	.9210		4647 3262 3548 3628		2369	
4.248	DEPENDE	.8790	2267	-3.839 M	DEPENDEN	.0700	.2259	.2872 .2872	.1807 .1603 .0597	.0195		. 0230	.8790		2583 2583 3309			1050
n		.8210	.3264			.0460	.3396		. 2936 . 2936 . 1438	.0815		.0716	.8210	5,476	9000. 9000. 9000. 9000.	1447		
BETA (3)	NGE	.7790	.1187	BETA (1)	GE	. 0230	.4957	.6138 6473	7.69.7. 7.736 2.2969	.1627		.0903	.7790		1731 0639 2076	.0157	.0123	.0252 .0833
.024 BE	1) ORBITER FUSELAGE	. 7290	0697	o n	110RBITER FUSELAGE	.0080	,926		. 5558			.2550	.7290	. 1632	7298	2459		1204
.8	1) ORBITE	.6520	1066	11.91	110RBITE	. 0000	1.0952					1.0952	.6520	.2132		3756 -		1977
ALPHA (4)	SECTION :	X.LB	PH1 165.000 190.000	ALPHA (5)	SECTION (œ :×	PH1 .500 20.003	55.000	97.03 97.03 120.000	150.000	162.000 165.000	174.000 185.000	X/LB	FH1 . 050	6633 6633 6633 6633 6633 6633 6633			

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

57.40 .2197 2431 918 PAGE .4970 .1870 . 1546 -.0904 -.0773 -.1373 -.040--.0078 .0071 RNI -.1817 -.1895 -.2948 .3780 .1087 .0789 - 174 -.1555 -. 1722 1059.0 .3010 -.2512 -.2593 -.4180 .0519 .0011 -.5135 -.5133 -. 5202 . 1350 .0327 -.0466 -.5144 -.6431 -.7380 -.6173 -. 5920 -.6268 .2040 .0532 .0300 .0052 -.0875 -.1254 -.2129 -.3402 -.4931 -.7652 -1.0046 .1330 1.0460 599.94 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .1770 1.0180 .4070 . 1660 .0828 .0780 .0750 -.0291 -.0213 -.0085 .5125 4847 .4878 .9990 -.3615 O .1580 .6367 -.152 -.152 -.1952 -.2110 24.75 -.24.16 -.2019 .9600 DEPENDENT VAPIABLE CP .1120 1225 1385 0565 0726 0778 1216 .1419 9210 -.2898 -.2341 -.4010 -.4039 .1587 .180 MACH .0700 .2336 .231 .2206 .1386 .0762 .0681 0159 . 0292 -.1323 -.1493 -.3181 -.3513 -.4345 .8790 .3445 .3356 .3296 .2455 .1840 .1490 .0460 1.0464 1.0174 1.0589 1.0528 .0880 .0776 .8210 路台 ລິ .0230 .5026 .5159 .5214 .5214 .3653 .3246 .3246 .1543 .1169 .7790 BETA SECTION (1) ORBITER FUSELAGE .9301 .4175 - 1 te 13 - 58 ts .2456 . 7290 .677 -. 735C EBG: -- 97 11.929 .0000 1.1032 1.1032 .6550 . 27:E ALPHA (5) ī

5.40 20.82 .2021 -.1295 -.0768 -.0562 .4970 .1707 .1163 E S -.2248 -.2052 -.2473 3780 .1081 .0350 -.2655 -.2194 -.3589 .3010 .0483 -.0818 -.1276 -.5999 -.7282 -.6903 .2510 .0121 .01447 .0114 .0568 -.1593 -.2895 -.4377 .2040 599.94 .1770 . 1660 .0693 .0523 .0121 .0121 .0799 .0545 O . 1580 .89963 DEPENDENT VARIABLE CP .1021 .0627 .0406 .0204 .0204 .1120 4.268 MACH .2167 .1758 .1413 .0397 -.0183 .0700 .3460 3302 2402 2403 1174 0135 0135 01535 .4889 .4633 .4074 .3007 .2411 .2194 . 0230 35¢73503 d3118e0 08001 .9089 2586 5.00 1.08PH

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TABULATED PRESSURE DATA - 0A148
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	?		- ABOL	ATED PRE	SSURE DA	TA - 0A1	ABULATED PRESSURE DATA - DATHB (AMES 11-073-1)	11-073-	- -					DACE	710
				AM	TS 11-07	3(0A148)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	C/R ORB	FUSELAGI	1.1		012	VEODED.		
ALPHA (5) =		11.915	BETA (3)	#	4.268					•		1	000		
SECTION	(1)0RB1	SECTION (1) ORBITER FUSELAGE	AGE		DEPENDI	DEPENDENT VARIABLE CP	ABLE CP								
X/LB	. 0000	.0080	. 0230	.0450	.0700	1120	1500								
PHI								1001	0//:-	. 2040	. 2510	.3010	.3780	0.4970	.5740
150.000			.1331	.0676	0050	1267		2072		6200	į				
162.000								1000	.0707	0+55·-	5984 -	5327	2057	0037	
153.900 153.900									. 1057	9715	6145	5497	2063	0010	
180.000	1.0884	7713.	1611.	.0680	9480.	1691	5819	.4863							
X/LB	.6520	.7290	0677.	.8210	0678.	0160	0000	t 6000		6725	5929	5483	2239	0143	
ğ						3	0000	288.	1.0180	1.0460					
. 000 40. 000	-2047 	. 1562	.0715	0551	1425	2980	0544		F 1 3	1 250					
70.000 90.000	74.22	7293	- 2662 - 2662	1128 1128	- 1565	8549 5179	1358		.2416	0110					
105.000 110.000)		0495	0472	5654	5409	5110 5391								
125.000	2212	2666	0257	+110.	5418	6097	6270	7493							
150.000	1.1494	1508	. 1080 . 1080	.3610	4564 3934	5023	4165	}							
180.300	1639	1296	. 0597	2070	2014	4250	2953								

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AMES 11-07310A148) -140A/8/C/R ORB FUSELAGE

	55.000 4.000 .600	4.8411		.5740	0782	1469							
				0.6970	0548	. 1.67	.0984 .0832 .0343	0053	C238	0412			
DATA :	SPDBRK L-ELVN MACH	RN/L		.3780	0788	- 1676 -	.0348	0367 -	0588	0759			
PARAMETRIC DATA	10.000 16.300	2386.5		.3010	- 1960 -	1973	0066 0419 1679	1042 -	1310 -	1348 -			
a.	RUDDER = BDFLAP = R-ELVN =	a .		.2510	1290	2704	1333 1612 1817	3120	2407	2303			
	208 208 3-	594.21		.2040	1556	3351		3544	9371	-1.1905	1.0460	.0013	
		# 594		.1770				7. 185	.2551	•	1.0180	.1303	
		0		. 1660	1801	3660	1453 0355 0104 . 1920	.5504	. 5685	.3727	0666.	5	. 2466 . 2466
		.59638	ALE CP	. 1580						£50.	.9600	1143 1023 1473	1725 1405 0836 2669
	222		VARIAE	.1120	0	.3151	1661 .0897 .1385	.3457		2820	3210	1730 1880 1.0895 1.1867	1287 0518 0136
	ZZZ	Q	=				1			•	•		1 : 1
		854 мACH	DEPENDENT VARIABLE	.0700				.3439		3748	. 8790		
	1076.6900 1 .0000 1 375.0000 1		DEPENDENT	.0460 .0700	2236	2384 2384	. 1528 . 3228 . 3453	.4289 .3439		•	•	8181 - 1748 18148 - 1778 1818 - 0153 8228 - 0828 3178 - 1818	2350 - 1445 - 2350 - 2544 - 2554 - 25644 - 25644 - 25644 - 25644 - 25645
ধ	0000	(1) = -7.854		09+0	2236	.026621862984		. 692		327 2748	. 0878. 01£	.1764 - 8181 - 1796 .1764 - 8148 - 1778 .0543 - 1818 - 0153 .114 - 8268 - 0528 .655 - 3178 - 1284	11.001.1 1001.1 17.7 17.7
ENCE DATA	. 1076.6900 . 0000 . 375.0000	BETA (1) = -7.854		.0460	.215122052236	.026621862984	. 1528 . 3329 . 3329 . 3453 . 5634	. 6854. 838		. 3327 2748	. 0878. 0188. 06	380 - 795 - 8181 - 1796 - 1754 - 8146 - 1778 - 277 - 6549 - 818 - 6153 - 3346 - 114 - 8268 - 9528 - 1695 - 8178 - 1584	23.50 - 19.00
REFERENCE DATA	FT. XPRP = 1076.6800 YPRP = .0000 ZMRP = 375.0000	(1) = -7.854	SECTION (1) CRBITER FUSELAGE DEPENDENT	.0230 .0460	215122052236 - :005 - 2270 - 2703	.026621862984	252 - 2534 - 26133 252 - 2326 - 25+3 252 - 2326 - 2553 252 - 2554 - 2553	. 6854. 838		39 ,437° ,3387 ,2748 .	. 690 .8210 .8790 .	350 - 1752 - 8181 - 1795 2072 - 1764 - 8148 - 1778 2072 - 1518 - 0153 3340 - 174 - 8028 1340 - 174 - 8028	2445 867 - 1945 2469 1875 - 1091 2779 3350 - 0644 2715 3550 - 1717

n S		£. 9 .1		.5740	0630	1101								£.0411		.5740	0629	0760	
1 A C		b		.4970	0488	1019	.0770 .0627 .0361	.0161	0210.	.0033				•		07g4.	10-0-	1359	6887. 71-71.
	51.)	FN/L		.3780	+190	1168	.0303 .0080 .0076	0206	0280	0348				RN		.3780	0508	0761	.0089 0093 0370
	(XE8861	2386.5		.3010	. 6770	1405	0410	- 160	- 1019	1016				2386.5		.3010	0744	7160	0659 1048 2438
		•		.2510	1117	2053	1830 2182 2323	2715	2105	1960				•		.2510	1054	-, 1509	2173 2613 2646
		12.		04û2·	1375	2700	- 1947 - 1947 - 2456	2689	9328	-1.1534	1.0460	.0563		594.21		.2040	1331	2175	2482 3503 3483
~	FUSELAGE	± 594		.1770					1 6 61.	•	1.0180	. 1380		₹		0771.			
11-073-1	928 8	o		. 1660	1634	3003	- 1084 - 1084 - 1003	.5033	.5602	.4677	0666.	722	28±1	0		. 1660	1522	- 2456 - 2456	1771
(AMES	-140A/B/C/R	. 59638	LE CP	.1580						.6966	.9600	0575 0963 1237 1629 2145	2264 :720 :115	.59538	RE CP	.1580			
- 0A148	-073(0A148) -	MACH #	IT VARIABLE	.1120		2373 2613	. 1499 .0095 .0361	.3258		.3189	.9210	1696 1253 0734 1210	2016 1071 0692 0677	MACH =	IT VARIABLE	.1120	0	2206	0579
URE DATA	=	3.832 MA	DEPENDENT	.0700			0661 .060 6 .1293			.3129	.8790	1787 1784 0623 1105	2357 1613 0946 0835	.201 M	DEPENDENT	.0700	1959	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
TED PRESSURE	AMES	.3.		0940.	1868	1908 1884	- 0009 - 1317 - 1318 - 190	.4139		.3814	.8210	2196 2123 .1061 .1372 .2048	.3433 .4351 .4428 .4300	,		.0460	- 1	0691	10 M 0
TABULATED		BETA (2)	GE	. 0230	1834	1658	. 3383 . 3383 . 4309	.5379		: T.	.7790	1691 1701 .0208 .0762	.2815 .2873 .2869 .2553	9ETA (3)	J GE	.0230	173;	0221	1000 1000 1000 1000 1000 1000 1000 100
			P FUSELA	.0080	.1722		.6063			.7253	.7290	1317 0462 .0085	.1157	.980 96	P FUSELAGE	. 0383	ZE81.		. 4526
9.75 57.E		-3.908	110FBITEP FUSELAGE	. 0000	1.0515					1.0515	.6520	1670 1793 0107	.0354 .0478 .0402	-3.9	1:09BITER	0000.	1.0602		
DATE 10 FEB		ALPHA (13	SECTION (x/LB	PH1 000.	20,000 40,000	75.00 20.00 20.00 20.00 20.00	140,000	101.000 108.000 108.000 109.000	174 CGG 180.000	X/LB	PHI 70.000 70.000 90.000 90.000	185.000 185.000 185.000	ALFINA (:)	SECTION (אירם	STO.		700000 100000 100000 100000

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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		.57ND									(C)		9			
		.4970	\$10.	. 0205	£ 15.				H		€16 4.	(6.5.7	1.5883	# 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	16:0	5 833
		L. 2.	0221	0233	3168				Ž		.378c	0555	38 56 1-	0051 5225 0795		0357
		.3010	1929	0934	- 0980				2385.5		.3010	0773	. 5-35	1835 1835 2953		.1079
		.2510	2468	1950	1855				a .		.25.10	113E	:267	1962 1962 1963 1971		2099 -
		.2040	3495	9253	. 1256	1.0460	.0618 0618		.e.		304D			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		9396
		0771.	.0347	6660.	7	1.0180	11.93 11.93		- 594		770	, ,	, , ,	, , , ,	Ş	, 800 800 11 11
		. 1660	.4113	.5231	.5106	0666.		2902 2902	U		. 1660	1665	. 2095 - 2095	2316 2757 1923		 253 *
												•	•			
	LE CP	. 1580		6798		.9600	0584 0727 1451 1738	2942 2126 1529 2789	. 59638	E (P	.1580					.6112
		.1120 .1580	.2800	6798	.3307	.9210 .9500	iiiii	1 1 1 1	u I	3754.57A	***		•		7+05.	51.18.
201	DEPENDENT VARIABLE CP		.2803 .2800	8738	•	•	1.12899 1.12899 1.12899 1.12899 1.231	1 1 1 1	. e HOW 25	Blar the William	- -	6. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	() () () ()	្ត ស្លាលស ស្លាលស	. 4413	5119.
201		.1120	•	8629.	3209 .3307	. 9210	.2193 - 1755 - 1719	2102.	14CH 8	Blar CAN TROUGH	2000	to the control of the	i i i i i i i i i i i i i i i i i i i		. 7715.	5118.
. = (£)	DEPENDENT VARIABLE	0460 .0700 .1120	. 2803	.6798	. 3209 . 3307	. 0158. 0678.	588219317551719 572205417641285 167 .054511071145 251 .071415801873	196 - 3520 - 2912 - 5933 - 5933 - 5935 - 593	- ACA - ACA	Branch incorpage	60 .0780 .1120 .1	CONTROL FOR THE CONTROL FOR TH	E CONTROL OF THE CONT	in the man	3162 .2177	.6118
BETA (3) = .	DEPENDENT VARIABLE	.0450 .0700 .1120	. 3756 .2803 .	8228.	915 .4024 .3209 .3307	. 0158. 0879. 0158. 3		2418 - 2196 - 3520 - 2918 - 2418 - 2521 - 2522 - 2428 - 1716 - 2523 - 1432 - 2535 - 1451 - 2535 - 2653 - 1451 - 2535 - 2653 - 1451 - 2535 - 2653 - 26	404 ACH 1 AC	BRAINA INCOMESSOR	1. 05007005to	CONTROL FOR THE CONTROL FOR TH	Maria de la compansa		3162 .2177	5118.
. = (£)		0230 .0460 .0700 .1120	. 3756 .2803 .	8228.	.4915 .4504. 3307	. 0158 . 0878. 08810 .8877. 0857	1291 - 1685 - 2193 - 1755 - 1719 - 2578 - 1885 - 2578 - 1764 - 1285 - 278 - 1107 - 1145 - 278 - 2187 - 2187 - 2879 - 2879 - 2879 - 2879	2013 - 2162 - 2120 - 21120 - 2	404 - 404 -	BRANCA LACORDAGO		CANCEL CONTROL OF THE	E CONTROL OF THE CONT	MUNICAL MARKET CONTROL OF THE CONTRO	3162 .2177	5118.

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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

57.0 -.0865 -. DB43 1970 .0039 CLET. -.0583 -.0395 -.0513 -.0E57 - 5-5 -.0359 .3780 -.0300 -.1219 -.0756 ±160.--.0387 -. 1013 -.0738 .3010 -. 1009 .3010 -.0976 -.1350 -.3*95 -. 0975 -. 1332 -.1516 -. 1464 -. 1968 . 85 85 -.1277 -.7566 -.3211 -.3978 -.2345 Ki. -. 23+1 ..0676 -.0676 .2040 聖二:--.2507 -.3218 -.4921 -.5475 -.5157 1.0460 .2040 -.9838 -1.1344 1.0460 . 0750 - . 0752 95. <u>2</u> 1.0180 .1770 . 231*2* .1770 -. 25554 -. 1645 1.0180 .1107 .9990 . 1660 . 4883 . 1660 -. 1820 -. 1761 -. 1896 -. 2365 -. 3411 -. 3406 .9993 .3747 .3969 1451 . 1580 .9600 . 1580 -.0573 DEPENDENT VARIABLE CP .9600 DEPENDENT VAR! ABLE CP .1120 -.1643 -.1199 -.1313 -.1889 .9210 .3198 .1120 -.1639 .2047 .2128 .2128 .2238 .2238 .2753 .9210 MACH .0703 .3117 -.1773 -.1732 -.1479 -.2113 -.3494 -.4719 -.3546 -.2701 -.1240 .8790 .0700 -. 1798 -. 1748 2690 8.352 .0460 .8210 . 3820 -.2206 -.1934 .0132 .0157 .4625 -.2238 -.1918 .0460 . 2205 .3305 .9213 BETA (5) . 0230 .4826 .7790 . 0233 -.:673 14381 BETA 1: CRBITER FUSE, ASE SECTION 1 1709BITER FUSELAGE . 3383 -.0363 -.0446 .6953 . 7293 -.1283 .0383 -.0213 .0518 .0967 . 1221 .0993 7293 -. 1326 -3.999 -4.035 0000. 1.0395 .6520 1017 1946 1748 1818 .0163 . 0212 . 0291 . 0295 .0200 9886 .6523 PHI 187.003 0,1 X/LB å x X

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AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

	160			P - 2396.1 FN/L - 4.8452		0472. 0784. 0375. 0105. 0125. 040	22710160718050902501259	179 152 - 1540 - 0952 - 2743 - 2558 - 0552	255 - 13260217 .0255 .025 254 - 16260555 .5.24 .0423 273 - 2500 - 2274 - 7574	- 9381 - 6431 - 820+1-	732256151852751	2987 - 2967 - 8787 - 8887 - 888	+5:3	: #C	
	1.0180 1.0460			593.85		. 1770 . 204(5	տա ։ Մա Մաստու Մա Մա Մա Մա Մա Մա Մա Մա Մա Մա Մա Մա Մա		. 1709 . 1709 - 1. 12	-1.358	1.0+8.1 B9-8.1	00. ¥125.	
	ა666 .		3250 3250	o		. 1660		- 1745		515.	.5:07	3034	0665		8 9 9 7 1
ء ر		1579 2057 2545	+,4167 +,3195 -,2650 -,791	.59624	ונב כף	. 1580						. 5597	3960	0533 1076 0937 1461	:608 :607 :126
7 VAD1 AB	.9210	1526 2138 2805	-,4597 -,3423 -,3481 -,3242	MACH	T VARIABLE	.1120		-, 1 9 88 -, 1663	Date of L	1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		2125	.9210	1.084: 1.084: 1.083: 1.083: 1.083:	1.1.1 6883 6883 6883 6883 6883 6883 6883 688
8.352 Professor VABIAGE	.8790	1842 2463 3914	6111 4905 4327 5578	.895 MA	DEPENDENT	. 0750		1.00 0.00 1.1	ភាពព ភូពិ ភូពិ ភូពិ	ນ ນີ້ ໃ		1.183	0978.	- 1.00 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
n	.8210	0227 0332 0133	1497 . 1357 . 4316 . 3552	-7.		. 0463	-1164	1 0010 1 0010 1 0010	ent () entropical entropical entropical	t Dec		0.	O M U	(a, (b) (b) 3 (a) (b) (b) (b) (b) (b) (b) (c) (d) (c) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	# () # ()
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TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE		
AMES 11-073(0A)	.015 BETA (1) = -7.895	
	(1)	
	BETA	100
	.015	TOA 17817 BRITTERS TO NOT 1010
	ALPHA : 21 =	10 NO1
	A. PHA	ינונ

.5740 -. 0282 -.0150 .4970 .0269 .0174 -.0204 -.0088 -. 0211 -. 02·.0 N N .3780 -.0041 -.0162 -.0432 -.0571 -.0353 -.0453 -.0505 -.0581 2386.1 -.0609 -.0562 -.0893 -.2197 .3010 -.0561 -. 1243 -.1305 -. 1329 .2510 -.1110 -.1807 -.2086 -.256 -.0801 -.3455 -.2583 -.2368 ۵. -.1050 -.1242 -.1338 -.1519 -.2395 -.2590 -.3338 .9990 1.0180 1.0460 .2040 -1.0899 -1.3120 1.0460 **= 593.85** .1770 .1615 1.0180 -. 1230 -. 1433 -. 1831 -. 0877 -. 0654 . 0828 . 1668 .9990 .4606 .4973 .3991 -.3241 -.2481 O .9600 . 1580 -.2715 .6408 -.0456 -.0929 -.1179 -.1617 -.2054 -.1781 -.1332 -.2662 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .9210 .1386 -.0184 .1120 -.1559 -.1345 -.0223 .0494 .0742 -.1557 -.1113 -.0738 -.1222 .2535 . 2416 .9210 -.1950 -.1240 -.1016 MACH .8790 .6700 -.1208 -.1456 -.1137 .0484 .1023 .1368 -.1572 -.1554 -.0557 -.1125 .2137 .8790 -.2457 -.1953 -.1532 .2331 -3.851 .2622 -.0829 -.0668 -.0429 .1210 .1900 .2345 .3166 .8210 .0460 .8210 .2799 -.1857 -.1700 .0962 .1334 3462 3785 3230 BETA (2) .1872 .0230 -.0298 -.0010 .1706 .3165 .3882 .4346 .7790 .4313 .3559 -.1242 -.1164 -.0282 .0377 .7790 .1928 .2549 .2562 .2253 .2065 SECTION (1) ORBITER FUSELAGE .0142 .0080 .7230 .3587 .5996 1965. .7290 -.0766 -. **1225** -. 0650 .0200 0689 .0698 . 022 -.0421 -.0498 .0000 .6523 1.0742 -.0455 -.0830 -.1183 -.0685 .6520 1.0742 ..0027 -.0027 -.0043 -.0411 ALPHA (2) PHI 165.000 185.600 20.000 46.000 55.000 70.000 120.000 1140.000 1151.000 1155.000 1174.000 46.000 40.000 40.000 105.000 110.000 120.000 130.000 185.000 185.000 X/LB ž X/LB X/LB

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TABULATED PRESSUPE DATA - CAIMB (AMES 11-073-1)

PAGE 925

			.5740							4.8452		5740	0344	.0097			
			0.4970	0263	0218	0244				•		0.4970	0239	0272	0083 0075 0372	0655	0643
(XE8861)			.3780	0611	0580	0587				I RN/L		.3780	0467	0313	0455 0429 0723	0951	0974
(XE			.3010	1329	1308	1239				. 2386.1		.3010	0721	0566	11330	1529	1603
			.2510	2904	2426	2358				۵.		.2510	1031	1156	2668 3067 3699	2973	2705
ليا			.2040	4763	-1.0762	-1.2866	1.0460	.0173		593.85		.2040	1275	1564	3022 4483 5279	5511 6659	-1.1079
FUSEL AGE			.1770	1,1497	0891		1.0180	. 1230		* 59		.1770				, 20%	- 2399
/C/R ORB			. 1660	.2604	4904.	.4230	.9990		3393 2917	σ		. 1660	- 1400	- 1519	2326 2326 2850	.1187	.3219
-140A/B/C/R		ABLE CP	. 1580			9890.	.9600	0424 0612 1570 1984	3220 2590 2176 2766	.59624	BLE CP	.1580					d di di
3(0A14B)		DEPENDENT VARIABLE	.1120	. 1525		.2419	.9210	1533 1119 1373 1937	3540 2560 2596 2626	MACH .	NT VARIABLE	.1120	1640	1477	1521 1754 0728	.0615	
AMES 11-073(0A148)	4.254	DEPEND	. 0700	. 1469		.2156	.8790	1551 1603 1554 2235 3481	4545 3743 3120 1726	8.317 H	DEPENDENT	.0700	1516	1576	1435 1588 0988	.0546	
Ą	•		.0460	.2321		. 2696	.8210	1892 1612 0069 0045	. 3807 . 3807	5) = 8		.0460	0961	1161	1054 1057 0061	. 1492	
	BETA (LAGE	. 0230	.317#		.3627	.7790	1289 1070 0983 0370	.0533 .1573 .1834 .1891	BETA (5	AGE	.0230	0514	0237	.0371 .06.83 .1374	.2146	
	.130	110RBITER FUSELAGE	. 0083			.5603	. 7290	0807 1717 1087	0439 .0387	B +60	ER FUSELAGE	.0080	.3123		.0986		
	*	1990(1)	. 0000			1.0637	.6520	0491 0572 1467 0356	0480 0040 0075		I JCABITER	.000	1.0125				
	ALPHA (2	SECTION	х/гв	PHI 140.000 150.000	165.000 165.000 169.000	180.000	X/LB	PH 1000 000 000 000 000 000 000 000 000 0	126.000 135.000 150.000 165.000	ALPHA (2)	SECTION !	X/LB			00000000000000000000000000000000000000		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

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BETA (5) =

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ALPHA (2) =

SECTION (1) ORBITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.0000	.0080	.0230	.0463	.0700	.1120	.1580	. 1660	.1770	.2040	018%	3010	.3780	0784.	5740
PH1 180.000	1.0125	.4905	.3185	. 2208	. 1672	194.		.3221	•	-1.3086	2741	1648	1017	0702	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PHI .GG0 40.000 70.000 90.000	0546 0506 1552	0828 1958 1303	1293 1066 1403 0823	1919 1573 0440 0530	1607 1619 1874 2652	1559 1184 1589 2400	0471 0566 1634 2288		. 2560 . 1155	.0809 0809					
185.000 185.000 185.000 185.000	0543 0562 0655	0876 0259	0298 .0591 .0862 .1063	1505 .1094 .3676 .2998	- 5843 - 5064 - 4750 - 3202	4472 3475 3789 3635	3192 3192 2853 2791	3336 3097							
ALPHA (3)	4.02t		BETA (1)	1 = -7	-7.901 M	MACH	.59766	a	= 595	595.26	# Q.	2385.4	RNAL	,	4.8521
SECTION	110RBITER FUSELAGE	RFUSELA	OE		CEPENDENT	NT VARIABLE	SLE CP								
x/L9	2000.	.0080	. 0230	. 0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	3780	0254	5740
PH1 600.	1,0280	. +930	9.80.	6030	0494			0866		90.0	9686	9640			
000 40 40 80 80 80 80 80 80 80 80 80 80 80 80 80			3569	1120	0565 . 0206	1077		1012 0946		0924 093:	.0486	0073	.0067	. 190. 2019.	. 0309 . 0350
		.7007.	25.00 m	3275	. 2016 . 2250 . 2465	.1083 .1558 .1719		.0283 .0314 .0362				0458	0077	.0031	
i i i i i i i i i i i i i i i i i i i			.3226	.202.	1444	1849		. 1440	•	2408 3408	2844	3015	1568	1648	
									. 1296 . 0946 -1	.2817		1971		2.00	
); (; (+ ;:•)	06/20	6624.	. 1933	. 1466	.:002	. 1352	194	.2379	•		- 293+			080.	
£.,	. 6520	.7299	3677.	.8210	.8730	.9210	.9600	.9990	1.0190						
PH1 .000 40.000	. 0297	6+20°-	0763	1417	1345	1417	0371 0884		. 1783	. 0399					

TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

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						نو • بے		0.4970	.0356	.0233	0232 0377 1074	0644	#hGO*-	0473			
(XE8861)						4 RN/L		.3780	.0007	7210.	0390 0499 1207	0839	0803	0735			
IXE						- 2385.4		.3010	0251	0012	0902 1179 2765	1653	1578	1457			
						0.		.2510	0516	0428	1932 2229 3021	4152	3014	2692			
•••			1.0460			595.26		.2040	0659	0895	1479 2550 2937	4021	-1.2447	-1.4573	1.0460	.0161	
-14UA/B/C/R ORB FUSELAGE			1.0180			29 #		.1770				į	.0382	•	1.0180	.1713	
C/R ORB			ა666.	,	3161 2457	σ		. 1660	0759	0773	0439	.4187	.4407	.3274	0666		3164 2469
-140A/B/		BLE CP	.9500	0825 1406 1857	1529 1777 1244 2528	.59706	BLE CP	. 1580					į	9/80	.9600	0367 0779 1133	
		DEPENDENT VARIABLE	.9210	0180 0764 1160	1420 1158 0799 0333	MACH .	NT VARIABLE	.1120	0805	0253	.0735 .0873	.1730		.1597	.9210	1386 0899 0890	
AMES 11-07310A148)	-7.901	DEPENDE	.8790	0067 0349 1073	1919 1867 1962	-3.849 M	DEPENDENT	.0700	0334	1243	1268	. 1396		.1254	.8790	1284 1341 0697 1098	
AME	# ~		.8210	. 1468 . 2031 . 3528	.4944 .3563 .1326	p		.0460	.0257	.0963	.2353 .2323 .2438	. 2025		.1755	.8210	1457 1253 .0844 .1275	
	BETA (1	AGE	0677.	0235 . 0421 . 0832	. 1352 . 1947 . 1957 . 1593	BETA (2)	AGE	. 0230	.1184	.3124 .3978	.4137 .4159 .3906	.3049		.2298	. 7793	0745 0585 0719	. 1509 . 1509 . 1015.
	4.024 B	KR FUSELAGE	.7290	1578 5936	0852	4.026 BI	1) ORBITER FUSELAGE	.0080	.525 \$25		.5591			.4435	.7290	0223 2001 1322	0473
	<i>±</i>	1.10RB1*6R	.6520	2034	1925 0931 0770			.0000	1.0608					1.0608	.6520	.0157 .0032 3380	1389
	ALPHA (3)	SECTION	X/LB	PH1 70.000 90.000 105.000	120.000 135.000 150.000 165.000	ALPHA (3)	SECTION (X/LB	PH1 . C30 20.033	56.000 55.000	76.360 96.650 126.650	150.000	162.000 165.000 169.000	180.330	X/:B	## ###################################	110.000 110.000 110.000 120.000 120.000

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AMES 11-073:0A148) -140A/B/C/R ORB FUSELAGE

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BETA (2) =

EC 1 10N	SECTION (1) ORBITER FUSELAGE	ER FUSELA	NGE.	,	DEPENDEN	DEPENDENT VARIABLE CP	LE CP			;					
œ,	.6520	.7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PH1 655.000 80.000	0381	60+0.	.1885	2925	. 0008	1260	2690								
PHA (3)		4.034 BE	BETA (3)	10	.195 MA	MACH #	.59706	o	= 595	595.26	•	2385.4	RN/L	•	4.8521
ECT ION	SECTION (1) ORBITER FUSELAGE	ER FUSELA	IGE		DEPENDENT VARIABLE	T VARIAE	ורב כם								
.r.B	.0000	. 0080	.0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740
PHI . 300	1.0712	.5322	. 1239					0718		0591	0451	0220	0000.	.0365	.0386
			. 1365			0724		0750 0758		0776 0923	0566	₽20034	.0139	.0202	. 0622
46, 000 40, 000 90, 000 80, 000		£604.	. 2841 . 2991 . 3036	.1150 .1261 .1261	. 0368 . 0368 . 0479	0237 0036 .0063		0976 1196 1276 0252		1526 2098 3045 3717	2594 2594 3243	1188	0640	. 0442 . 041 . 0624	
			.2787	. 1890	.1096	.1495				_	3596	1448		0361	
								.4065	0410	-1.2131	2759	1424	0579	0281	
	1.0712	.4359	.5528	1680	. 1266	.1798	. 5669	.3783	•	-1.4335	2565	1316	0586	0309	
ei Ei	.6520	.7290	0677.	.8213	.8790	.9210	.9600	. 9990	1.0180	1.0460					
#4 000 70 000 70 000 70 000 70 000	60000 600000 600000 600000 600000 600000 60000 60000 60000 60000 60000 60000 60000 60000 60000 60000 600000 60000 60000 60000 60000 60000 60000 60000 60000 60000 600000 60000 60000 60000 60000 60000 60000 60000 60000 60000 60000 600000 60000 600000 60000 60000 60000 60000 60000 60000 60000 600	+ 0522 - 0522 - 1522 - 1569	0763 0578 1091 0866	1.1986 1.1985 1.0458 1.0458	- 1356 - 1359 - 1168 - 1830 - 2634	1385 0932 1118 1671	035? 0580 1852 2348	•	. 1498	.0543 0543					
	7.0882 7.0883 7.0815	- 0313 .0376	1317 (629 1896 1753	3681 3681 3983	3265 2819 2369 1026	2519 1917 1830	2436 2200 1831 2486	. 2515 2516 316							

929		4.8521		.5740	9820.	. 02 6 0					4.8521		0190	D6+0.
PAGE		ø		.¥970	7:40.	. 0491 - 0442 - 0398	0365	- 947			#		9/64.	0659 0520 0429
	861)	4 RN/L		.3780	.0001	0004 0592 0642	0633	0718			FRV/L	ļ	0118	0331 0839 0517
	(XE8861	= 2385.4		.3010		0302 1364 1482 2527	1506	1427			- 2385.4		. 3010	0692 1464 2449
		۵.		.2510	0540	0854 2627 2826 3328	3248			iC V	<u>.</u>			1340 2999 3633
	4.4	595.26		.2040	0695	1114 2016 2658 3677 4468	6879	-1.4290	1.0460	05255 0682	595.26			- 1558 - 2393 - 2992 - 4174 - 5117
	FUSELAGE	56		.1770			1775		1.0'80	. 1358 . 1358	. 59	į	?:	
AMES 11-073-1	C/R ORB	o		. 1660	0733	0950 1470 1697 1974	.2320	.3507	.9990	3455	σ	Š	0916 1055	- 1309 - 1991 - 2846 - 2419
_	-140A/B/C/R	.59706	BLE CP	. 1580				.5092	.9600	0334 0448 1650 2026 2550 3041 2644 2673	.59706	ALE CP		
A - 0A148	11-073(04148)	MACH =	NT VARIABLE	.1120	0829	0663 0683 0683 0742 0742	.1039	.1642	.9210	1351 0991 1948 1981 2549 3355 2622 2622 2751	MACH =		1004	1115 1467 1292 1420
RESSURE DATA		. 25t	DEPENDENT	.0700	0394 0579	- 0434 - 0434 - 0434 - 0434 - 0021	.0676	.1167	.8790	1297 1374 1594 3362 4303 3878 3878	.239	DEPENDENT	.0703 0582 0871	0999 1150 1373 1318
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-1.5327 -.3525 -.1919 -.1198

TABULATED PPESSURE DATA - DAIWB (AMES 11-013-;)

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-0/3:04[#B)	NT VARIABL	.1120	. 0299	.9210	0826 0301 0521 1065	2029 1774 1562 1120	# TOUT	T VARIABL	.1126	.097 i	. 0253 0212	-,033 -,0163 -,0163	.0262		.0475	.921¢	0779
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937							4.8439		.5740	. 1539	.1579							
PAGE									0764.	.1469	.0757	1901 1570 1393	0788	.0726	.0920			
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	(XE8861						2386.0		.3010	. 0683	. 0263	2338 - 2251 - 3334 -	. 1669	- 1486 -	1524 -			
									.2510	.0512	- 1062 -	3173 - 3222 -	3859 -	3021	2979			
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AMES 11-073-1				ა666.	;		σ		. 1660	.0560	0357	1755	. 1668	17¥3.	. 2369	0666.	1	2671 2671
-	-140A/B/C/R ORB		3LE CP	.9600	1335 1692 2309	- 2314 - 2314 - 1822 - 2322	.59660	RE CP	.1580						1601	.9600	. 0033 0231 1607 1994 2609	2857 2616 2265
A - 0A148			DEPENDENT VARIABLE	.9210	1129 1599 2125	2431 2272 2081 2215	MACH =	IT VARIABLE	.1120	0	. 0151 1810	0713 0753 0231	7400.		.0296	.9210	0813 0537 1561 2073	3216 2630 2859
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TED PRESSURE	AME			.8210	0129 .0210 .0699	. 1478 . 2961 . 4891	j 11		0340.	507		0104 0225 0368	0190		0164	.8210	0407 0152 0790 0905	0091 .3711
TABULATED		BETA (3)	N GE	.7790	2064 1036 0080	.0526 .0324 .1117 .1348	BETA (4)	IGE	.0230	.3930	0462.	. 1254 . 1631 . 0639	.0186		.0113	3677.	.0448 .0630 2304 1485	0674 .0536 .1244
			IR FUSELAGE	. 7290	3795		.963 BE	R FUSELAGE	.0080	. 7959		**!!			.0798	.729:	.1087 4039 2981	1694
B 75		= 11.967	1 1 OFBITER	.6520	5133 3653	2147 1473 0933 0840	6.11 =	1 1 ORB 1 TER	. 0000	.9405					.9405	.6520	.1506 .1507 5090	2036
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(XE8851)

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DEPENDENT VARITALE	.9210		3013	MACH	DEPENDENT VARIARIE		.1120			. 0269	0796	1404	1272	. 0030	0401			0035	6	2	0813	7:05:7		5c04		3583	
DEPEND	.8790		2599	8.316 P	DEPENDE		.0700		. 1279	.0796	1520	1648	1376		1123			0861	8790			07.2		i		5282	
	.8210		.4020				.0460		. 2282	. 1650	1057	1111	- 1083)	3589			0464	.8210				1.1004			.3821	.1761
LAGE	.7790		.1123	BETA (9	AGE		. 0230		.3687	8/62	.0276	9.00. 0.00.	0096		0367			0217	.7790				- 27.30 - 7.30		1240	7643.	.0336
1) ORSITER FUSELAGE	. 7290		0248	11.951	TER FUSEL		. 0090		.7528			ORE						. 0202	. 7290		. 3959		#0#E'-		2395	0776	1120
	.6520		0894 1066	n	1109811		0000.		.884e									.8846	.6520		00.5	n m 1 11 1 11 1 1	3635		ረረረତ	+601	300
SECTION (X/LB	Ë	165.000 180.000	ALPHA (5)	SECTION (1) ORBITER FUSELAGE	2	X/LB	E E	20 000	43.000	55.000 70.000	80.000	120.000	140.000	151.000	165.000	159,600	180.000	/ra	PHI	690°.	70.00	90.000 105.000	110.000 101.000	35.000		

.5740 -.0589 -.0674 2.9210 .4970 -.0635 83 .0.12 .0222 -.0987 -.0818 -.0012 -. 0969 R K SPOBRK L-EL VN MACH -.0909 PARAMETRIC DATA 3780 -.0583 -.0966 -.1287 -.0.12 -. 1079 -.1240 (XEBB62) 442.06 5.000 16.300 .3010 -.0989 -. 0245 -. 1453 -.1651 .2510 -.0118 -.1933 -.1711 -.1059 -.1711 -.2850 -.2496 RUDDER BOFLAP R-ELVN ٥ -.0269 -.0692 -.1815 .0703 .1358 .0861 .1497 .1126 .2040 -.2499 -. 1472 1.0460 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .170 .7432 .8060 1.0180 .0387 .1660 -.0543 -.0579 -.1004 .1216 .2288 .2897 .5659 1.0013 1.0620 .9990 1.0004 .1580 1.0998 -.0280 .0564 .1046 -.2421 .9600 DEPENDENT VARIABLE CP -.0763 -.0528 .1053 .2174 .2658 .1120 -.2074 -.1742 .1628 .0718 .9210 -.0537 .0738 .1934 .3044 222 -3.849 MACH żżż .0700 ..1645 ..1780 .1500 .1216 .008: .0107 .0610 .2297 .3135 .3393 .4855 1777. .8790 .0708 .1117 .1761 .4860 1076.6800 1 .0000 1 375.0000 1 .0480 .0793 .0905 .1222 .3154 .4109 .4884 .6110 6419 .8210 .6034 -.0950 -.1047 .1991 .1991 .2843 .4221 .4119 86C+. .2032 .2594 .4443 .5932 .6839 .7506 . 0230 -.0428 -.0804 -.0480 -.0563 .7333 .7790 3569 3868 3759 SECTION (1) ORBITER FUSELAGE REFERENCE DATA 2690.0000 SQ.FT. 474.8000 IN. 936.0680 IN. .0080 .6749 .9387 .7290 -.0237 1.0257 4410. 0498 -4.059 .0000 -.0213 -.0695 .0825 .0915 1.4742 .6520 -.0100 -.0183 -.0196 .0348 ALPHA (1) = 20.000 55.000 70.000 70.000 90.000 120.000 150.000 151.000 165.000 165.000 165.000 165.000 SPEF LREF BREF SCALE A/LB

		2.9210			1 /C.	0548	0448																0126.		5740	0610	0386		
1		RN/L .		1070		0521	+.770	.0023	0065 0509	0713		0765	078											!	.497C	0652	0746	0140	08CE
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		599.99		.2040		0269	1138	.0736	0123 .0452	0740	1850	acc I :	2947	1.0460		.1512	.0437					500 00	9	6	. 2040	.0412	. 180 		0604
į	URB FUSELAGE	a 55		.1770	•					į	.7389			1.0180		. 1690	8180.					*		97.7		•	•	•	•
		ø		.1560		0540	0535	. 1606	, 4500 4500	. 9266		1.0324	1.0244	0666.				1240	1845			G	ı	1650	3	0631	0398	.0966	.3467
0/3/0/4041-)	1.3925	BLE CP	.1580								0100		.9600		2602	. 1377	0160.	1227	.0312	3086	1.3925	9	_		• •	•		
(84148)		MACH	NT VARIABLE	.1120		0484	0498 9454	1316	.3807	.5141			. 5583	.9210		2030	.0179		1116			p	VARIAB	.1120) 	.0418	. 0075	.0558	CAS.
AMES 11-073(04148)	·	2001.	DEPENDENT	.0700		.0180	. 0542 . 1695	. 2224 7245	. 3567	.4495			.4845	.8790		1610			.0229	.1591	/ <u>0</u> :+.	. 280 MACH	DEPENDENT	.0700				.1350 .1367	
AME		p -		.0460		.080. 0948	. 1.15¢	.3085	1225	.6193			.6081	.8210		0846	. 1921 . 1921		. 1306		976+.	j n		. 0460		9170.	. 0492 . 1610	.2118 -2802 -2774	
		TU	AGE	. 0230		. 2.146 . 2.484	. 5049	.5301	.7163	.7409			.7361	.7790		0370	0028 .1492		3870	.3961	.4107	(A (3)	ы	. 0230		.2084 .?185	55.4. 50.14.	. 4754 . 5354 . 6332	
	7	מטה	1) ORBITER FUSELAGE	.0080		.6763		. 7962					1.0083	. 7290		0165	.0346	2000	1000.	. G421	.0288	30 BET.	R FUSELAGE	. 3090		.6520		.6483	
			1.10881.1	. 0000		1.4/03							:.4763	.6520		-, 3174 -, 0415	. 0597 . 0695	2050	7676	0089	000	-3.93	1109811E	. 2003		1.4667			
	A: PHA		SECTION	X/LB	PHI	20.000 20.000	55.000	90.000	170.000 140.000	60.00 60.00 60.00	168-338 165-033	030 747.1	190.000	X/LB	ii.		7 0.00 0 90.000 105.000		i gi i din d	20 C 20 C 20 C 20 C 20 C 20 C		ALPUA :	SECT: 24: C.1	81.X	FE	<u> </u>		96 000 188.80	

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				AM	AMES 11-073(0A148)	(0A14B)	-140A/B/C/R	98	FUSELAGE				(CS)		?
ALPHA (1	p	-3.930	BETA (3	3) = 4	4.280										
SECTION	(1:0RB17ER	TER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	. 0000	.0000	.0230	.0460	.0700	.1120	. 1580	. 1660	0771.	0404	8.00	3010	T C	1 070	9
PH1 140.000 150.000 151.000			.6837	.5702		. 4595		494B.	.5463	2033	3058	1788	1738	1214	
165.000 169.000 174.000								1986.	6199	1683	3162	1320	1410	1098	
190.000	1.4657	.9921	.7347	.6096	8484.	.5515	1.0387	1.0118		2635	2885	1528	1245	1013	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460) :		
II.															
. 000 . 000 . 000	0338	0143	0421	0875	1588	2047	2633		.1762	.1517					
70, 000 90, 000 101, 003	. 0559 . 0559	.0190	. 1437	2008	.0359	.0593	. 0996 . 0087		97.0	.0467					
110.000			8,000.	1910	0557	₽.0874		•							
120.000	. 0272	.0473	9175.	.0284	0650	1922		1871 2279							
150.000	0086	. 0282	3665	. 3547	. 0306			•							
180.000		. 0252	3828	.4223	. 3483		34 [9								
ALPHA (2)	n	.024 BE	BETA (1)	Ħ	-3.867 MA	MACH =	1.3922	o	= 599.78		•	90°244	788		01.70
SECTION (1 10RB1 TER	ER FUSELAGE	IGE		DEPENDENT	T VARIABLE	a U							1	9; ie
X/LB	.0000	.0800	. 0230	. 0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	3010	7.78U	4070	
PHI .003 ≥0.003	1.4836	.8018	.3211	. 1657	.0804	á	·	0163	•	0093	1600 .	8600.	- 0008	·	0275.
ර සිට මුත් සිටුම			5375	٠. د د د د د د د د د د د د د د د د د د د	.1570	0467		0007 0007	• •	·	0531	0535	9810		1860
73.050			.6997	. 5.00 848 4.348	. 83. 83. 83. 83. 83. 83.	. 1504		. 1621					3		. 0554
1.00.000 1.00.000 1.00.000		916.	.7349	.5469	.3357	3664		.3055 .5680		1381	1543 1525 1189	0767 1590 3237	0524 0380 1495	0337 0314 0679	
152, 036 151, 036 151, 036			2 69.	.5+66	.3575	.3879		.9753	1247		3495	2483	1516	0905	
14.000 14.000 14.000						- •	. 0334	1.0259	8777	- 1998	. 3.36	2273	1580	0936	

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AMES 11-073(0A148) -140A/3/C/R ORB FUSELAGE

57.6 -.0223 57.50 - 60g 2.9172 £98 -.0169 - 0425 - 0447 - 0635 £976 -.0708 -.0380 -.070+ - S Z 3780 3780 .0080 -.1729 -.0027 -. 1659 -. 1633 - 1564 142.08 .3010 .3010 -.2006 .0246 ..0318 -.1353 -.2187 -.3864 -.210Z -. 1683 -.2457 .2510 -.3386 .0350 . 0205 -.2136 -.2122 -.1987 .0063 -. 3538 -. 3563 -. 3234 . 2040 -.3027 -.0145 -.0221 -.0269 .0952 .1220 .0511 .0511 -.0314 1.0460 .2040 -.3490 -.2023 .2105 .0804 1.0460 599.78 .170 1.0180 .2364 .1417 .1770 .6344 1.0180 .1212 . 1660 .9990 -.0087 -.0075 .0041 .1016 .1603 .2256 .4714 .9568 -. 1096 -. 1904 . 1660 0666 .887th .9953 1236 -.2045 -.2677 -.1335 .0065 .960 -.136+ -.0163 .0453 .2663 .185 MACH = 1.392? 1.0293 .156) .960) -.2051 DEPENDENT VARIABLE CF DEPENDENT VARIABLE CP -.1480 -.1000 .0415 -.0201 -.0916 .1120 . 120 .9210 -.1129 -.0272 .1163 .3756 -.1462 .0174 .0383 .0992 .1406 .1593 .2925 3803 9210 3567 .0700 -.1003 -.1159 .0628 .0229 -.0541 .8790 .0700 .¥90 -. 0996 -. 1044 .0808 .0808 .1358 .2239 .2428 .2428 .2374 .2374 8790 .3314 .8210 -.0350 -.0421 .0430 .1247 .0460 5086 0440. -.0299 3079 1642 1786 2940 2940 3271 3731 4680 .8210 5218 BETA (1) = BETA (2) .0230 .0250 .6058 .01% .01% .1305 .08% .08% .3306 .328 .328 .3191 .730 3288 3513 4708 5516 5903 6242 6555 0137 01.50 7790 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .0080 -.0685 -.0241 7100. .0080 .8985 .7290 .0136 .0057 -.0160 .8034 .7697 8833 .7290 .0215 . G29 Ŷ. -.0049 -.0094 -.0140 .0000 1.4836 -.0293 -.0302 -.0274 -. 0222 .6520 .0000 1.4859 .6520 -.0050 ALPHA (2) LPHA (2) PH1 180.000 .000 70.000 90.000 1105.000 125.000 125.000 185.000 185.000 . 000 46.000 75.000 96.000 96.000 1170.000 1170.000 1170.000 1170.000 1176.000 1176.000 1176.000 .000 40.000 X/LB X/LB X/LB

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TABULATED PRESSURE DATA - DAIYB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

							2.9172		SZ.		0336	0317			٠									
							•		0.4970		3292	051	0502	0686	0870		usp	1037						
							5 PAVL		3780		. 0027	0110	1548	1921	2028	į	187c	1728						
							* 442.06		.3010	8	. 0205	0226	1912	4555	2436		. 1888	2110						
							۵		2510	t c	uges	0039	2564 2700	2708	3572	į		3420						
		1.0460					599.78		.2040		0235	0223	. 0722	- 03+8	- 2479		. c. 133	3190	1.0460	.2076	.0857			
		1.0180					ii •		.1770							.5325			1.0183	.2336	.1295			
		. 999 0	!	1813			ø		. 1660	20.0	0135	.005:	1046	.3635	.8212		.9459	.9721	9880			i	2909 2909	
	WELE CP	.9600	.0639 0353 1408	2191	0765 0304	312b	1.3922	BLE CP	.1580								į	7	.9600	2051	2314 .0101	0781	3213	1412
	DEPENDENT VARIABLE	.9210	0075 0547 1192	1526	0356 .0484	.127	MACH .	DEPENDENT VARIABLE	.1120		.0195	.0204 .0420	.0635	.2155	.3059			.3661	.9210	1445	1160	1678 1672		1017
.185	DEPENDE	.8790	. 02:5 - 02:0 - 1256	.0010	.0761	. 3346	4.257 M	DEPENDE	.0700	7000	.0693	.1036	1565	. 2259	.3090			3749	.8790	0987	0997 0018	UB20 1622		0023
* (S		.8210	.0947 .0971 .1262	.1975	.3348 .3549	.4219	*		.0460	1510	1522	.2108 .2108	. 2736 2736	.3876	.4856			.5196	.8210		0163 0878	15 P. C.		.300r.
BETA (2	AGE	.7790	1236 . 0209 . 1559	.2670	4.00% 4.00%	.3253	BETA 13	N GE	. 0230	.3281	32.65	. 4047 . 4047	.5231	.5689	.5888			.6152	.7790		3359		2249	3039
. 029 B	I 1 ORBITER FUSELAGE	. 7290	0431	.0036	.0251	.0174	025 85	INORBITER FUSELAGE	. 0080	.7869			.6190					.8619	.7290	.0158	1203	•	1600.	.0238
		.6520	0033	.0103	0024	01+2 01+2	· "		.0000	1.4726								1.4726	.6520	(7)	0103	D N	.0155	7126
ALPHA (2)	SECTION .	X/LB	PHI 70.000 90.000 105.000	120.000	150.000	180.000	ALPHA (2)	SECTION (x/LB	PH1 .000	20.0 00	55.000	70.700 90.000	140.000	153.000	162.000	169.000 174.000	167.000	X/LB	9H1	70.030	105.00	1 30.000	150.00

DATE 10 FEB 76

AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE

(XE8B62)

				2.9189		5740	1910		.0296																		
						.497C	000	3	.0121	5	ממפני ו	1523	1123		0980		0804										
				RNY		.3780	9910	5	.0405	i i	020	. 25.43	-, 1889	}	1967	3	2023										
				442.29		.3010	0020	0000	.0322			3175			007.0	56.13	2423										
				•		6155	2	. 0334	. ^538			1203 -			- 7630		3864 -										
		1.0460		88 G		.2040		2000	91.0				1035		2010		3512 -	.0460		2828	***						
		1.0180 1		= 599.88		.1770							•		.7460	•	1	1.0180 1		3299	. 2523						
		. 9990		o		.1660			. 0862	1811	. 1918	55. 57. 57. 57. 57. 57. 57. 57. 57. 57.	9276	0.00		.9898	.9102							2560 2560			
	E CP	.9600	3443	1.3919	LE CP	.1580											. 9553	.9600		1482	1825	֡֝֝֟֝֟֝֓֟֝֟֝֓֓֓֓֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֡	1757		0900	0303	2004
	I VARIABI	.9210	.0588	# **	T VARIABLE	.1120		1,100	.1332	. 2055	. 2265	. 23.36 . 2978	1606	. 0.30			.2711	.9210					2027				
4.257	DEPENDENT VARIABLE	.8790	.2469	B67 MACH	DEPENDENT	.0700		1650	. 2515	.3461	3+30 13+30	3305	2761	0/4			1 45%	.8790					1060		0240		
,	_	.8210	.3131	-3.867		.0460	į	2000	34.8	.4337	***	#578 #508	C 111	יין איני			4125	.8210		.0277		1000 1000 1000 1000 1000 1000 1000 100	1121		2535		. 2685
TA (3)	Ä	.7790	.3051	TA (1.)	ы	. 0230		. + 300 			. 5985	. 6990 6990 6900 6000	5673	n .			75-4	.7790		.0520	.05.87		1026	1951	.2239	.2271	. 22 14
025 BETA	4 FUSELA	.7290	.0236	.958 BETA	? FUSELAGE	. 0080	1	. 9245				.8730					7581	.7290		4540.		1579	/ ps: -	- 1064		0307	. 3552
8	1108911ER	.6520	0197 0310	3.9	1 1 OP3 I TER	.0000		1.4705									1.4766	.6520		. 03+B	. 655 5	មិន មិន មិន		- 1339	. (8162	0362
ALPHA (2)	SECTION (1) ORBITER FUSELAGE	87/x	PH1 165.000 190.000	ALPHA (3)	SECTION (X/LB	PHI	000.	40.000 40.000	55.000	73.639	000 000	140.000	151,000	152.000	163.003	174.600	മ	1	ono.	₹0.000	70,000	135.500		(35.0C)	150,030	180.030

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

	TABULA.	TABULATED PRESSURE AMES 11-	SURE DATA	RE DATA - DAI48	~ 3	-073-	1) 1)			ž	ê
58 BETA (2)	_) E	7 LP7	STUATAB:	-140A/B/	В с	FUSELAGE	GE 500 00	a	(XEBB	(XE8862)
			2	INT VARIABLE	දි දී	,		8	L		n
. 0630 . 0830	•	0460	.0700	.1120	.1580	. 1660	.1770	. 2040	.2510	.3010	.378
•	yi yi	302	1741	280		.0453		.0339	. 0235	. 0529	.052
• •	N.W.	= 99	2673	1369		0711		.0126	. 0628	. 0341	***0.
• •	W.W.	ភ ិសី	8404 8404	20 ± 1		2060		1517	1828	1088 1746	102
850+. 1+8c. 835+. 5353.		D 01		. 2363		.4765		0032	1980	3697	204
				i i			.6201 .68.9	2,71	36.		
,					.9451	F 30.			.300	€.	
7461 . 4953 . 4154	¥.		3.725	1673.		.9368		3892	3983	2165	195
0158. 0677. 0657.	.8210		.8790	.9210	.9600	0666.	1.0180	1.0460			
.0598 .0712 .0363 .0773 .0406 .181520040337 .12211221 .0340	.0363 .0406 .0337 .0340		0330 0380 0562 1252	0791 0608 1013 1252	1475 1605 0130 1378		.3244	. 1385			
0447 .1921 .1292 .2004 .2469 0016 .2073 .3416 .2148 .3934	. 2469 . 2469 . 3416		0363 .0287 .0822 .2708	1846 0859 0041 . 0744	2554 1246 0816 3098	2930 2930					
3.963 BETA (3) = 4.	#		.246 MA	MACH =	1.3919	o	# 599	599.88	a	= 442.29	_
FUSELAGE			CEPENDENT	UT VARIABLE	ALE CP						
0840. 0230. 0460	.0460		.0700	.1120	. 1580	.1660	.1770	.2040	.2510	.3010	.378(
	5739. 4579.		. 1802 . 1488 . 1722	.0760		.0404 .0338 .0513		.0266 .0162 0008	.0828	.0403	.0551
2347. 2344. 2353. 2359. 2819. 4935. 2589 2585. 0905.	2359 2359 2589 3346		. 1832 . 1559 . 1559	.0592 .0725 .0714		.0595 .0678 .1519 .3719		.0635 .1006 .0285 0067	2212 2411 2749	1584 2295 4255	1553 1953 1730

-. 0582

-. 1950

.5740

0794.

.3780

.0120 -.0003

.0184

.0551 .0376

-.0135

-.1175 -.1010 -.0781

-.1553 -.1953 -.1730

5740

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PAGE

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-.1129 -.0947 -.1063

-.1027 -.1486 -.2040

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-.1905

(XE8862)

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	* 3.963 BETA (3) * 4.245
		3.963
DATE 10 FEB 76		ALPHA (W) .

		.5740							2.9182		5740	.0738	. 0930			
		.4970	0681	0726	0890				•		.4970	.0786	.0750	1102	1280	0913
300		.3780	1979	2109	2021				B RN/L		.3780	.0933	.1053	0312 0849 3401	2176	2060
1 15 000 2		.3010	2974	2343	2525				• 441.59		.3010	.0728	. 1143	0307 0659 3169	3848	- 3254
		.2510	0604	4097	3862				۵.		95.0	.080	. 1261	1088	4363	9404
٠		. 2040	1666	2614	3683	1.0460	. 2864 . 1457		600.00		0-02	.0897	.0908	2025 2188 1762	1168	2896
1 036 LAU		.1770	5195	.6079		1.0180	.3283		•		.1770				6707	.7208
		. 1660	. 788¥	6006.	.9325	.9990		3790 3790	o		. 1660	.1075	1685 1930	. 546 1980 5161	.8843	.9167
	BLE CP	.1580		1	7558.	.9600	1504 1630 0627 1649	3399 1792 1473 3551	1.3932	RE CP	. 1580					.8075
	NT VARIABLE	.1120	. 2202		.2663	.9210	0791 0623 1256 1444	2514 1470 0805 0151	MACH .	IT VARIABLE	.1120	935	- 2099 - 2099	2353 2186 249	.2048	
, u	DEPENDENT	.0700	<u>\$</u>		.2738	.8790	0329 0329 0735 1467	1000 0721 0016	.866 m	DEPENDENT	.0700	2561	3332	31.4E. 31.85. 24.85.	.2105	
		.0460	620 1 .		.4265	.8210	.0330 -0255 -0310 -0207	.2608 .2035	۳- • :		.0460	3736	00 C C C C C C C C C C C C C C C C C C	1833 1333 3852	.3318	
RETA 12		. 0230	. ⁴ 895		.4916	.7790		. 2312 . 2312 . 2312 . 2309	BETA (1	NGE	.0230	. 5512 4598	1707.	.6910 .6591 .7873	. 4559	
7.96.7	FUSE	. 0080			.7219	.7290	.0531 1913 1256	0253 0542 0542	.927 BB	THOMETER FUSELAGE	0860.	1.6417		.8212		
		. 0000			1.4605	.6520	.0163 .0+70 5057 0171	0183 0280 0376	. 7.9	1 : CHRC : 1	aucs.	E C C C C C C C C C C C C C C C C C C C				
M	-			165.000 169.000			PHI - 000 73.000 93.000 105.000		7	-						

- 0A148 (AMES 11-073-1) TABULATED PRESSURE DATA DATE 13 FEB

(XE8B62) AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE = BETA 7.98.7 ALPWA : 41 SECTIO:

5 C 5740 .0815 ₽£0. 2.9182 .4970 -.1509 -.1670 -.:57 .0949 .4970 .0679 -.069 -.0732 -.6529 Ž .3780 -.0914 -.1379 -.3318 -.2166 3780 .1062 9660 -. 1987 -. 1852 ₹1.59 .3010 -.2739 .3010 .0753 1008 -.0812 -.1240 -.3568 -. 2939 -.3+38 -.4206 .8510 -.1467 -.1625 -.1821 . 5 5 .1005 .0767 -.4350 -.3989 -. 3845 .2040 . 19⁵50 1.0460 .2040 .0977 .0833 .0651 .0776 .1518 .1518 .1050 .1050 -. 282A 600.00 1.0180 .4309 .1770 .1770 ±60√. 6499. 0666. . 1660 .8683 . 1660 .1150 .1176 .1474 .1285 .1235 .1353 7980 .8813 . 1580 .1247 .9600 .179 MACH = 1.3932 . 1580 <u>ም</u> DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0164 -.0112 -.1317 -.1963 -.2672 . 1123 . 1120 . 1893 .9210 -.0014 1655 1795 1556 1571 1394 1840 .1967 .0700 . 1835 .0358 .0173 -.1397 -.1372 -.0517 -.0514 .0353 .8790 .0700 2550 2550 2573 2573 2733 2735 2355 2135 .:858 .0460 .3188 .0947 .1090 .2309 .0335 .0690 .1246 .1229 .8210 .3288 .0460 3776 3776 3991 3991 3453 3351 3256 .3335 BETA (2) .0230 .3628 .7790 .0762 .0620 .0613 .0754 . 0230 L283 CHRITER FUSELASE SECTION (1) CRBITER FUSELAGE .0080 -.2407 -.1359 .::55 -.1759 .6196 .7490 .0383 -.0253 -. C253 E ++50 - 1 6889 7.932 .0388 .6523 1.4383 7 . 6365 1.4427 PHA . 41 PHI 183.003 87/X X/LB ត្តភ្ជាល់ ស្ត្រី ស្ X/18

.3251 3759 5037

500 . 1691 . 1614 . 124S B. (2)

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AMES 11-073/04148) -140A/8/C/R ORB FUSELAGE

				2.9182		0 × 5740	2ETO. 0	##CO. 5	01 C P	•	C 3	-		
				FN/L .		0.64	0770.	.0392	1982 1597 1057	0614	06 00	F. 10777		
						.3780	**01.	. 0829	1483 1908 2313	1837	2147	2145		
				441.59		.3010	.0696	.0647	1355 1792 4014	3357	2667	2759		
				•		.2510	9470.	.0578	1847 2135 2570	- 99466	43£4	4185 -		
		1.0460				.2040	.0855	.0281		2940	. 2 99 1	- 9/04.	.0450	.2122
		1.0180 1		- 600.00		0771.					.5833 .5833	•	.0180	.4582 -5824
		1 ენნნ:	3420	0		. 1660	1070	1006	.0571 .0640 .0869 .3782	.7381	.8482	.8903	. 9990	
	LE CP	0096	0424 2000 2846 2803 1717 1719	1.3932	רב כם	. 1580					c S	ncna.	.9600	0808 1019 1129 1935
	JEPENDENT VARIABLE	.9210	1573 2129 3020 2115 1279 0569	MACH	T VARIABLE	.1120	1 303	1309	.0803 .0803 .0656 .1289	. 1563		1854	0126.	0101 0218 1683 2111
.179	LEPENDEN	.8790	1548 1952 2280 0237 0343 .2334	4.245 MA	DEPENDENT	.0700	. 2634 24.0	6070	.2071 .1695 .1516 .1563	.1405		. 1918	.8790	. 2187 - 1491 - 1491 - 2187
ti ti		.9210		<i>*</i>		.0460	7775	. W	285. 285. 205. 47. 47.	.3161		. 3393	.8210	1093 1093 1032 10353
TA C (2)	સુ	.7790	2693 0393 0393 .0907 .0933 .0933	[A (3)	ы	. 02:30	.548; 44:48	5353	.5017 .4755 .4696 .4388	. 3839		.3705	.7793	######################################
X 35.7A	PUSELA	. 7290	1847 1847 0869 0425	33 BETA	PUSELAGE	.0080	1.0313		.5381			.5807	.7230	. 1753 . 1753 . 1759
7.932	110PBITER FUSELAGE	.6520		= 7.933	110RB1 TER	. 0000	1.4318					9154.	.6523	
· · · · · · · · · · · · · · · · · · ·	SECTION	X/LB	70.000 105.000 110.000 135.000 155.000 155.000	ALFHA (4)	SECTION !	яля	0 0		00000000000000000000000000000000000000	100 100 100 100 100 100 100 100 100 100	60.000 60.0000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.	100 100 100 100 100	d %	202500 808600 1 94340

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TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-073(0A148) -140A/G/C/R ORB FUSELAGE

			2.9199		37.0	.1500	1500	}																
			•		0.79#.	1496	1427		0988	- 139	-£896	1626		200		- 1.72								
			FOLV!		.3780	.1436	SF	3		_		2595 -		2198 -		2091 -								
			442.53		.3010	. 1223	9871	9				4306 -	(- 366		- 8465								
			•		.2510	1413	172	1771			- 1219	4733		. 1754		. 4413								
	1.0460		599.87		. 2040	1649	1588					1770	1	3327		4102	1.0469	.4229	64 <u>6</u> 2.					
	1.0180		* 596		.1770								.6545 .6864				1.0180	.5221	.3765					
	3666.		0		. 1660	1850	. 1973	ָּהְיָּהְ הַיְּהְיָּהְ הַיְּהְ	1904 1904	. 1826	4311	.8775		7110		.7951	.9990				2502	2547		
ונ כף הר	.9600	3588	1.3916	RE CP	.1580										.6744		.9600	0669	04.0.	0597	- 1405	1363	- 2038	3295
245 DEPENDENT VARIABLE CP	.9210	0674	MACH	DEPENDENT VARIABLE	.1120		-2004 -		2332	1101	1861	. 1292				.1179	.9210	.0857	.0933		2637	2251		
4.245 DEPENDE:	.8790	. 1805	-3.854 MA	DEPENDEN	.0700	3657	3598	950 100 100 100 100 100 100 100 100 100 1	3365	100 d.	1758	. 1410				.1127	.8790	• (c)		- 1917	212:	1335	0550	.2:51
j u	.8210	.3001			. 0460	1,10	្រ មិន្ត្រ មិន្ត្រ	10.00	.538) thus	305+	.2189				.2265	.8210		1930	case		1990		
BETA (3) LAGE	0677.	. 1072 . 1061	BETA (1)	30,	. 0230	7	7193	, אמלי המשלי	6759	6177	, to	. 3465				.254	0677.	3268	C.	- 3592 - 3109	2669	-,0330 -	1,100	4450. -
FUSE	. 7290	1710		P FUSELA	.0060	1447				. 7692	1					EF.	.7293	375		33555 2573		575: -	1 742	
= 7.933 :) OPB:TEP	E 3	0392	= 11.912	110RBITEP FUSELAGE	. 8383	1 797.4	;									1.3874	3≥39.	•FF1.	17:22	- 1538 - 1538		-, 1934	1012	7.0859 7.0888
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$37.x	PH1 165.000 193.000	ALPHA (5)	SECTION (en ×	140	80°.00°.		55.678 77.678	1000 1000 1000 1000 1000 1000 1000 100	120.030	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		165,000 165,000	010.471	180.000	X/LR	PH1 . P03	40.000	77, 134 90,000	00000000000000000000000000000000000000	0		000 000 000 000 000

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TERMES!

AMES 11-073(04148) -140A/B/C/R 099 FUSELAGE

ភ ai 4970 ü 3780 110.53 .3010 <u>8</u> Q. .2040 63 9000 .1770 . 1660 ø .1580 .184 MACH = 1.3916 VARIABLE CP .1120 DEPENDE .0700 . 0460 Ñ .0530 LOPALTER FUSELAGE .0080 ដូ ព . 2000 0.4011035 X/:B Ħ

. 1500 . 1514 7.171.-7.91.--. 0580 .1578 .1320 界書! -. 0527 Z -.0882 -.1315 -.4392 .1599 . 1504 -.2005 -. 1920 -.2003 115.53 -.0374 -.3505 . 1289 1351 - 2759 -. 35B5 -. 32:5 -.1164 -.1455 -.1810 .1270 1381 -.4308 -.4E44 -. 4695 ۵ -.4396 -.3:83 1.0460 .4263 599.87 .5870 .6304 1.0180 .5196 .3783 .1880 .1902 .1169 .1169 .1169 .9990 7352 .8023 -.3202 9118 C .9600 -.0077 -.0351 -.0737 -.1813 -.3004 -.2086 -.1644 -.3451 .7364 MACH = 1.3916 .0822 .0585 -.1655 -.2518 -.2428 -.1604 -.1163 -.0316 .2377 .2455 .1452 .1507 .1197 . 1266 .9210 .1275 .1403 .1315 -.2400 -.2516 -.3051 -.1376 -.0937 -.0279 -.2285 . 1187 . 1135 .8790 .259 .4837 .4854 .4055 .34.15 .3093 .2093 .2007 2715 -2715 -4715 --.0464 .0745 .3263 . 2366 .8210 .2354 .3667 BETA (3) 6784 6885 7021 6309 5540 5519 . 3037 - 3037 - 3037 3228 .2611 .7793 1.1548 -.3620 -.2435 -.3915 6311 . 4602 .7290 . 2027 -.0330 -. 1234 -616.11 -.0715 -.0454 -.0381 1.3922 .6520 -11007 1.3322 Sign of the state of

1,459 . 1218 57.0 2.9199 -.2399 -.2479 -.1487 . 1009 argy. あれ -. 1507 -. 1855 -. 3895 1.41 .1272 F. 88 3010 .1215 .0760 - 1839 - 1554 - 1898 -.1517-5100 .0627 加二 1.005 .2040 .1770 . 1650 . 1836 . 1573 . 1373 . 0418 . 0527 . 0588 . 3582 . 1580 DEPENDENT VARIABLE CP . 1120 . 1870 . 0508 . 0508 . 0744 . 0747 . 0836 .0700 31396 31396 3000 2118 1621 1 447 .0-63 .0230 THOPBITER FUSELAGE . 3083 1.14:7 3000. 1.3791 SECT10% ((B) / X

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

(XEBB62)

PAGE 951

		.5740							2.9243		.5740	.2345	.2559			
		.4970	0672	0565	0792				•	•	0.6970	.2240	. 2299	1106 1346 4191	3270	1172
		.3780	1800	2016	2115				FN/L		.3780	.2143	.2486	0153 0602 5209	3134	8325.
		.3010	3630	2882	2974				. 443.71		.3010	.1897	.2206	0219 0261 3039	4854	4061
		.2510	4769	4541	4385				• •		.2510	3515.	.2346	0685 0931 1272	5162	4693
		.2040	0689	3313	4305	1.0460	ਮੂਤਮ. 2813 2		599.83		.2040	.2374 9750	.2206			3808
		.1770	¥08¥.	. 5568		1 0180	.5182		593		.1770					.6466 .6466
		. 1660	. 6556	.7611	.8207	0666.	į	4705 4705	σ		. 1660	.2713	3126	.1755 .1538 .2970	. 7866	.8131
	ze cp	. 580			.6710	.9600	0179 0530 1675 258! 3989	4260 2182 2180 3702	1.3897	LE CP	. 1580					Š
	DEPENDENT VARIANE	.1120	. 0997		.1132	.9210	.0826 .0373 2995 3059	3078 1719 1441 0938	MACH =	I VARIABLE	.1120	į	3818	. 2351 . 2351 . 1599 . 0826	.0587	
4.258	DEPENDEN	.0700	9180		.1235	.8790	.1279 .1191 2447 3105	1743 1110 0450	3.830 MA	DEPENDENT	.0700	9634.	5080	. 3219 . 2682 . 0769	.0610	
n		.0460	. 2248		.2515	.8210	.1964 .2126 2255 1472	- 1441 - 1414 - 2865 - 3558			.0460	1500 1000 1000 1000 1000 1000 1000 100	6385	3713 7113	6011.	
BETA (3)	સુ	.0230	.2877		.2567	.7790	.2320 .2547 3867 2593	.0622 0199 0500	BETA (1)	F.	.0230	. 7966	. 1999.	. 6499 . 6499 . 4035	. 2439	
	R FUSELA	.0080			.4338	.7290	.2079 3431 2309	1007 0461 0604	CU	R FUSELA	.0000	1.2478		.7033		
= 11.919	1.10RB1TE	. 0000			1.3791	.6520	.1646 .1715 2249 1230	0471 0419 3614	= 15.91	DORBITER FUSELAGE	. 0000	1.3172				
ALPHA (5)	SECTION (1) ORBITER FUSELAGE	X/LB	PHI 140.000 150.000 151.000	162.000 165.000 169.000	174.600 180.000	X/LB		155.000 165.000 165.000 165.000	ALPHA (6)	SECTION (87/x		40.000	70,000 90,000 180,000	5000 000 000 000 000 000 000 000 000 00	

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11-073(0A14B)
AMES

-3.830

BETA (1) =

ALPHA (6) = 15.912

	5740					2.9243		5740	משנת מ		9025.							
	.4570	0711				•		0764.	9	9,00	0	1972 1958 3215	-,1079	0678		0578		
	.3780	1.194¢				RN/L		.3780	9145	מיזכת		0865 1170 5294	5456			1775		
	.3010	3056				+ 443.71		.3010	0261	ret		0801 0841 3372	2644.=	-, 3369		2873		
	.2510	4639				۵		.2510	4916	ואים	•	1133 1419 1814	4981	4544		4828		
	. 204c	4435	1.0460	.3217		599.83		.2040	.2410	.2228	.0433	. 1445 . 1445 . 1105	. 0284	3512		4600	1.0460	.4897
	.1770		1.0180	.6118 .4658		* 599		.1770						.5496			1.0180	.4613
	. 1660	. 7282	0666.		3364 3364	σ		. 1660	.2740	.2475	0160.	. 1016 . 0912 . 3136	. 5414	i i	925/·	.7486	0666	
BLE CP	.1580		.9600	.0399 0087 1596 3451	2761 2138 2982 3591	1.3897	JLE CP	.1580							.6443		.9500	.0399
DEFENDENT VARIABLE	.1120	. 0605	.9210	.1541 .1117 3736 2949	2743 1798 2763 0582	MACH #	DEPENDENT VARIABLE	.1120		.3267	1226	.0950 .0543	.0653			. Jober	.9210	1501
DEPENDE	.0700	.0497	.8790	. 2440 . 2222 . 4466 . 2636	1947 2032 3779 .1663	.184 m	DEPENDEN	.0700	.4743	.44.32	.3051	. 1861 . 0641	. 0552		Q Q	50c0 ·	.8793	.2482 .2306
	.0460	.1395	.8210	.3158 .3291 4650 1968	.0375 .0375 .1494	t.		.0460	.6034	. 5951 . 5663	.4139	. 2737 . 1700	. 1442		2636	0	.8210	3358
AGE	. 0230	.1520	0677.	.3297 .3718 5668 3780	1111 0340 1628 2051 1054	BETA (2)	οc	.0230	.8028	. 9055 . 7702	.6326	.4735 .35:3	5255.		n u	u101.	.7795	.3561 .3753
110RBITER FUSELAGE	.0080	.3146	.7290	.3023 4472 3135	1949 3204 1028	324 BE	R FUSELA	.0080	1.2555			.5533			7967	5	, 12 12 13 13	C) M
	. 0000	1.3172	.6520	.3183 2586 1454	2271 2895 1217 0911	± 15.3	110RBITER FUSELAGE	. 0000	1.3238						ביכי	•	Ω. Ω.	u a u e t
SECTION (X/LB	PH1 180.000	x/LB	PHI - 209 - 70 808 - 70 808 -	100,000 100,000 100,000 100,000	£[PHA (8)	SECTION (X/LB	PH1 .000 .000		20.000 70.000	0 0	000 CE	600 000 14-1-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100 14-100	P C C C C C C C C C C C C C C C C C C C	•	i.	

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					2.9243		.5740	.2280	.2001								
							0.4970	.2221	.1706	2508 2508 2102	0799	0553	0702				
					I RN/L		.378C	. 2226	.1729	156617794947	1871	1800	2034				
					= 443.71		.3010	2925	.1169	1328 1358 3725	3907	2949	3075				
					œ.		.2510	.2098	.0648	1477	+664	4618	4572				
		1.0460			599.83		.2040	. 2346	. 1934	0437 0090 0090 .0565	0530	3556	4602	1.0460	4874		
		1.0180			# 559		.1770					.5307		1.0180	.6134 5024		
		. 9990	Ç	3717	o		. 166	1175.	. 1636	2017 2017 308 308 308 308 308 308 308 308 308 308	.5877	.6973	.7525	0666.			4239 4102
	BLE CP	.9600	1661 2701 3699	3137 2276 2634 3561	1.3897	BLE CP	.1580						588	.9600	.0388	1836 3433 4784	3893 2525 2156
	DEPENDENT VARIABLE	.9210	3409 3419 4279	2443 1768 2372 0740	MACH ==	DEPENDENT VARIABLE	.1120	6		.0276 .0276 .0346	.0509		.0559	.9210	. 1493	3348 3695 5234	2820 2553 1389
.184	DEPENDE	.8790	4988 3665 3988	1884 1165 2815 2474	. 288	DEPENDE	.0700	4668	.3616 .3616	1397 1397 1097	.0423		. 0685	.8790	.2375 54.19	- 4768 - 4055 - 5059	- : : : : : : : : : : : : : : : : : : :
•		.8210	4681 2566 0813	0184 .0054 .2555	# #		.0460	1.973	. 1555 4822	. 5009 . 2238 . 1867 . 1257	.1385		. 1645	.8210	701H	436: 2745 1746	. C463 . C463
BETA : 2)	AGE	.7790	5498 4037 2885	0857 .0045 1902 1084	BETA (3	AGE	. 0230	7910	. 6566	3823 3018 3018	502.		5551.	.7793			C) · · · · · · · · · · · · · · · · · · ·
5.924 (8)	110RBITER FUSELAGE	.7290	-,4858	1614 1779 0547	916	ER FUSELAGE	0800	1.2434		4354.			2631	.7290	.3:53	ម្ចាល់ មួយ ប្រជាពិធីក្រុម ព្រះ	E 5000.
7.07		.6520	3478 2143	1214 1587 0789 0743	a 15.6	1.10RB1TER	.0000	1.3158					1.3158	.6523	m n M ∩	0 ID C 0 ID C 1 ID IV 1 I IV	1039
ALPHA (83	3 1011035	Х'nВ	784. 990.000 1000.000	20000000000000000000000000000000000000	ALPHA (S)	SECTION (X/LB		100.000 100.000	90.000 120.000 120.000	140,000 140,000	18-17 18-17 18-17 18-18-18-18-18-18-18-18-18-18-18-18-18-1	174, 263 180 mg	J)	(1) (1)		() () () () () () () () () ()

247E 10 FEB 76

(XEBB62)

.9990 1.0180 1.0460 AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE .8750 .9210 .9600 .2837 -.0751 -.3790 DEF DENT VARIABLE CP 4.288 .8211 .2588 BETA (3) = .7790 -.0505 -.0876 -.0781 -.1050 -.1029 SECTION (1) ORBITER FUSELAGE . 7290 15.916 .6520 ALPHA (6) = PHI 155.000 189.000 X/LB

TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)

AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE

PAGE 355

(XE8863)

	55.000 1.250	3.0%1		.57v0	0612	0834								
	ស ៖ # # #	•		.4970	1039	. 1282	.0185	.0265	07 <i>2</i> 7	0855	0961			
: DATA	SPDBRK L-ELVN MACH	RN/L		.3780	0734 -	- 1960	0779	0949 1353	- 1299	- 1431 -	- 1668 -			
PARAMETR1C	5.000 16.300 -4.000	552.28		.3010	0568	1550 -		2424 4211	2339	2832	. 1911			
u.	RUDDER = BDFLAP = R-ELVN =	٠.		.2510	0206	2088	2772	2443	3946	-, 2954	3719			
	585	600.11		.2040	0131	2071	.0700	.0039	- 1988	2691	3771	1.0460	.1470 0169	•
		- 60(.1770					9	.7102		1.0180	. 2003 . 2750	
		ø		.1660	0149	0395	. 1884 . 1884	. 2399 . 4960	.9246	.979¥	.9121	6880	9 6 1 1	0918
		1.2459	RE CP	.1580							1.0529	.9600	3050 4082 .1856 .1580	0376 .0310 .0542 3225
	228	MACH .	DEPENDENT VARIABLE	.1120		0550	. 2683	. 3268 . 5264	.6105		.6065	.9210	2491 2108 .1933 .0925	0329 .0658 .1492 .2360
	76.6800 1N. .0000 1N. 75.0000 1N.	3.840 M	DEPENDEN	.0700	.0036	.0328	3215	.3689	.5400		. 5298	.8790	1985 2035 .1598 .1266	.0615 .0615 .1535
	. 1076.6 . 375.0			.0460	.0677	.1103	. 404B	.4875 .6170	.6489		.6151	.8210	1215 1251 -3149 	.2957 .4856 .4737
₹	XMRP YMRP ZMRP	BETA (1)	1 QE	. 0230	. 1834	. 4059	. 5665 . 6661	.8078	. 7938		.7368	0677.	0597 0893 032 .1781	.4287 .4778 .4705 .4533
REFERENCE DATA	SO.FT. IN. IN.		R FUSEL	.0000	.6278			.9234			1.0102	.7290	0257 .0075 .0457	.1083 .1276
REFER	2690.0000 474.8000 936.0680 0300	= -4.050	1) ORB! TE	. 0000	1.4039						1.4039	.6520	0011 0699 0849	.0348 .0218
	SHEFT - SE LARFF - L BARFF - L SCALE - S	ALEMA (1)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 . 000	20.000 40.000	55.000 70.000	90.630	150.000 150.000	152.000 153.000 155.000	174.600 180.600	X/LB	PH1 .000 .000 .70.000 .90.000	135.000 135.000 155.000 165.000

3.

	RN/L = 3.02
(XEBB63)	552.28
	۵.
AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	- 600.11
R ORB FI	a
-140A/B/C/	= 1.2459
6	
173(0A)	MACH
AMES 11-0	. 196 MACH
	(2) #
	BETA
	-3.916
	ALPIA (

	3.0241		3740	0537	0580												3,0261		19740	0686	CH2+	
			.4970	0939	0936	0046 0058 0372	0596	0648	0688						•		•	ı	07.64		9876	0181 0165 0509
(23)	FRV.L		.3780	0773	0866	184		- 1707 -	- 1648								FW/1		3780	. 6990	0776 -	1362 1272 2576
(XEBB63	552.58		.3010	0543	1232	20563191		1728	1501		0						552.28		.3010		.1053	2463 - 3689 - 5551 -
	۵.		.2510	0089	1323	3399 3247 2753	3671	3493	4085								•		.8310	0123 -	0953 -	3863 - 3943 - 3465 -
	600.11		.2040	.0013	- 1479	. 0112 0864 0427	1640 2834	2737	3451	1.0460	151	0110							.2040	. 6069	•	1843 1587
ORB FUSELAGE	• 60		.1770				9	0990. 9449.		1.0180	. 1847	. 0593					. 600.11		.1770	• •	• •	•••
	o		. 1 6 60	0073	0571	. 1304 . 1644 . 3926	.8557	.9525	9440	. 9990			i	£155 1552			σ		.1660	0361	0267	.0717 .0842 .2785
-140A/B/C/R	1.2459	R CP	.1580						1.0444	.9600	3029	. 3742		- 1491	0311	1905.	1.2459	e S	.1580	• •	•	
11-073(0A148)	MACH =	NT VARIABLE	.1120	0287	0237	. 1796 . 2301 . 4484	.5708		.6133	.9210		2162 1270		1207		001:	•	VARIABLE	.1120	0401	.0311	. 1251 . 3397
5 11-073	.196 m	DEPENDENT	.0700	.0017	. 0327	. 2735 . 3882	.497B		5374	.8790	1940				.1162	n n	.275 MACH	DEPENDENT	.0700	.0376		. 1811 . 1811 . 2739
AMES	#		.0460	. 0597 . 0588	. 0943 . 2232	.3736 .5178	.6130		.6234	.8210	M	1093 .2940 .2637	~	1424	.4772	.5779	*	•	.0460	•		. 1910 . 2559 . 4 169
	BETA (2	AGE	. 0230	. 2025 . 2185	.3581	.5598 .6264 .7110	.7421		.7466	.7790		0646 .1155 .2218		.3549	14737 4808	7.05	TA (3)	ы	. 0230	.2001	.398. 5198.	8004. 8712. 7119.
	916	ER FUSELAGE	.0080	.6314		. 7835			1666.	.7290	0192	0372		. 1083	. 1232	. 1353	3 BETA	FUSELACE	0600.	.6209		.6354
		1 JORBITER	.0000	1.4107					1.4107	.6520		1.0550 1770		5460.	. 0.430 . 0.430	.0251	-3.923	1 10901 TER	3000.	1.3973		
:	(1) ARRIVA	SECTION	X/LB	PH1 .000 .20.000	55.900	90.000 170.000	150.000	188.000 188.000 188.000 188.000	190.000	X/LB	1H _G	70.000 90.000	105.050 110.000	129.30 <u>0</u> 135.939	150,000 150,000	190 . ୯୩୯	ALPHA (1)	OFC*: ON	×/1.9	0 0 0 0 0 0 0 0 0	35.000 35.000	180.00 180.00 180.00

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11-073-1
AMES
. 0A148 (
RE DATA -
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DATE 10 FE	FEB 76		TABULATED		PRESSURE DATA	A - 04148	_	AMES 11-073-1						PAGE	951
				AMES	S 11-073	11-073(04148)	-140A/B/C/R	929	FUSELAGE			(XE	(XE8B63)		
ALPHA (1)	n 1	3.923 BE	BETA (3)	ŧŧ	4.275										
SECTION ((1:0PBITER	ER FUSELAGE	4GE		DEPENDENT	NT VARIABLE	BLE CP								
617X	. 3000	.0380	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740
PHI 140.000 150.000			.6827	.5660	5144.	.5059		.7678	.4600	-, 3231	3952	2005	2253	0873	
165.000 169.000								.9037	. 5657	2815	4179	1665	1908	0958	
180.050 180.050	1.3973	.9763	.7402	.6146	. 5244	.6002	. 9890	.9294		3867	3531	1809	1669	0970	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.8600	ე666.	1.0180	1.0460					
PHI .000 70.000 70.000 90.000 101.000	0116 0133 .0584	0199 0142	0535 0466 .1426 .2210 .3050	1163 1038 .2889 .2717	1977 1977 .0820 .0096	2451 2133 .0830 0434	3065 3648 .0730 .0078	i i	. 1952	.0214					
126.000 135.000 153.000 155.000	.0552 .0161 .0051	.1331	3175 .4065 .4326 .4421	.4195 .4195 .4520 .5055	1524 0461 .0644 .2815	2376 1158 0586	2664 1518 1312	2325							
ALPHA (2)	ø	36 440.	BETA (1)	11 E)	.864 M	MACH ==	1.2451	σ	= 599	599.58	<u>.</u>	- 552.51	II FRN'L		3.0238
SECTION (1.0RB1TER	ER FUSELAGE	GE		DEPENDENT	NT VARIABLE	BLE CP								
хле	.0000	.0080	.0230	.0460	.0700	.1120	. 1580	.1660	0771.	.2040	.2510	.3010	.3780	0764.	.5740
PHE .000 .20.00	1.4164	.7612	. 2975 3416	.1661	.0835	טאטט		.0136	·	. 0271	.0214	0087	0289	065 <u>8</u>	0601
400 CON				.3757	. 1385 - 1385	. 1945 1945		.0157		0774 0905	0807	0701	3230	0795	0421
		285 8	.6833 .7202 .7356	. 5425 . 5427	. 3232 . 3414 	. 3238 . 4733		. 2739 . 2739 . 5059		. 0680	2542 2341 1834	1006 1947 4104	0809 1237 1630	0320 0361 0840	
0 () () () () () () () () () (.6925	.5351	3604.	555		3008.		.2310	+8Gn	3080	1725	0916	
								r d	.6785	3231	4006	3016	1824	0850	

(XEBB63)

AMES 11-073(04148) -1404/8/C/R ORB FUSELAGE

51 FN/1. 51 2065 3780 0322 1395 1395		
.3780 2065 03780 03780 16081 16081	0565 0565	
.3010 .2465 .3010 .3010 .3010 .3176 .3176	2034 -	
	2443	
. 4304 . 4304 . 3104 . 3104 . 2510 . 4650	3978	
3.58 3.58 3.58 3.58 3.58 3.58 3.58 3.58	3275	1.0460 .1961 .3561
5. 0771. 1.0180 1.0 1.0393.0 1.393.0 1.00.		
. 1660 . 9990 . 1660 . 1725 . 1725 . 1725 . 1660 . 1725 . 1725 . 1660	.9194	0666
.1590 .1590 .3385 .1385 .0203 .0203 .0203 .0203 .1245 1.245 1.245	.9972	.9600 2398 3129
.1120 .9210 .9210 .1782 .1783 .1175 .1165 .11679 .1619 .1619 .1619 .1619 .1619 .1619 .1619 .1619	.5257	.9210 1768 1353
-3.864 DEPENDENT 0.0700 0.0700 0.0700 -1.192 -1.1319 -1.1319 -1.1319 -1.0491 -1.0491 -1.0491 -1.0491 -1.0491 -1.0491 -1.0700 -1.089 -1.089 -1.089 -1.089 -1.089 -1.089 -1.089 -1.089 -1.0700 -1.089 -1.089 -1.089 -1.089 -1.089 -1.089 -1.089 -1.089 -1.0700 -1.0	.4102	
	.5078	. 6210 6433 0343
6109 023C 0033C 0083 0083 0083 0083 0083 3334 3334 3334	.6229	. 1910.
. 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 000000 . 00000 . 00000	.8722	.7290
	1.4210	.6520
### (2) ### ### ### ### ### ###		# 17 # 2000 # 20.000 # 20.000 # 20.000

)								m			•	•								
!								•		.4970	.0652	.0823	0489 0435 0507	0635	0599	0785				
								Z Z		3780	- 6220.	- 0383 -	175817131732	- 2023.	. 87.55.	. 1905.				
	(XE8863)							2		•	٠	*		•	1	'	-			
								552.51		.3010	0038	0454	2271 3310 5367	2678	2281	2394				
								•		.2510	.0225	0209	3552 3652 3593	4405	4TT	4134				
				1.0460				599.58		.2040	.0208	0152	. 0156 0128 0128 11289	3796	3370	S144	1.0460	. 1859		
_	FUSELAGE			1.0180				# 29		0771.				77	5396		:.0180	. 2438 . 1298		
11-073-1	ORB			. 9 990	, 9968	2380		0		.1660	0021	.0478 .0478	. 0930 . 1181 . 1351 . 3110	.7462	.8716	.8905	. 9990		976	3231
(AMES	-140A/B/C/R		LE CP	.9600	.0613 .0185 1080	2215	0972 3656	1.2451	ABLE CP	. 1580						改	.9500	2427	. 0034 0490 1698	3218 2120 1850
- 0A14B			T VARIABLE	.9210	.0376 0681 1574	1825	0180	MACH =	VARI	.1120		.0010	.0542 .0861 .1136	.4352		.5067	9210	- 1746	0223 :188 2018	2963 1596 :019
URE DATA	AMES 11-07310A148)	.183	DEPENDENT	.8790	.0241 0202 0932		2897	.256 M	DEPENDENT	.0700	.1122	.0987	1422 1412 1408 15157	.3291		.3956	.8790	1217	0038 0699 1463	1695 0773 0214
ATED PRESSURE	AMES	p		.8210	.1705 .1322 .1231	7771.	.3940	<i>±</i>		.0460	.1635	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 1938 . 2153 . 3707	.4708		5046	.8210	0458 0298	. 1651 . 1270 . 1184	. 33.76 . 33.176 . 34.03
TABULAT		BETA (2)	Щ.	0677.	1237 .0802 .2101	2975	3673	BETA (3)	ice ice	. 0230	.3007	2930	7356 7356 5060 5609	.5881		.6208	.7790	 	06. 00. 100%	8978. 32078.
		050 BE	R FUSELAGE	.7290	1070 0487	.0345	.0807	.046 BE	110RBITER FUSELAGE	.0080	7482	<u> </u>	.6097			85+B.	.7293	9,55	\$ C: 4	8850°.
ð.		ö.	1:ORBITER	.6520	0043	.0378	.0262	0.	1 1 ORBITE	.0000	7.60.2	•				1.4087	.6520	()()	9250. 9250.	1350
DATE 10 FEB		ALPHA (2)	SECTION :	X/LB	PH1 70.000 90.000	110.000	189.000 180.000 185.000	A. Pi+4 (2)	ECTION	X/LB	PH1	000.02 000.02	25.030 70.000 95.000	140.000	192.000	195,000	LL 1	- 200		00 00 00

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(XEBBB3)

DEPENDENT VARIABLE	.8210 .8790	.3771	= -3.864 MA	DEPENDENT VARIABLE	.0460 .0700	9792 . 1680	.2880 . 1293 .3497 . 2213		.4638 .324.	.4321 .2691		.4046 .27:0	.8210 .8790	.03900389 .03970512 .02180680 .05460276	.15271894 .26090843 .26890406 .2633
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VAR	.9210	0132	MACH	VT VAR	.1120		2			野子. 16		9414. 0	0126.	991007 120542 800316 761024	31287 5 .0000 5 .1148
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	1.0180		- 596		.1770					F. 175	9849		1.0180	.3491 .2313	
	1.0460		599.34		.2040	.0537	.0342	1676	. 1228	. 0224 24 15	3751	1574	1.0460	. 2638 . 1376	
			a .		.2510	.086.	. 0290		2190 1979	5130	4699	4758			
			552.51		.3010	.0420	.0118	0800-	•	3959 -	- 3581 -	2925			
			RN/L		.3780	.0267	.0457		1333	1976	2083	2310			
			•		079¥.	0137	0185	1103	- 155 - 175 - 175	1039	0831	070			
			3.0213		5740	0197	. DB 14								

(AMES 11-073-1)	
E DATA - DAI48 (AME	
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8		3.0213		37°C	0131	0112									3.0213		gre.	0159	0242		
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1 - 0A148		MACH #	IT VARIABLE	.1120		.0821	1632	3149	B004.		.4256	.9210	1008 0793 0628 1484	2591 1487 0732	MACH B	UT VARIABLE	.1120	i G	6300	.0761 .0830	C / 33 ·
SURE DATA	5 11-073(0A14B)	.185 M/	DEPENDENT	.0700	1907	. 1637	107.9. 103.9. 103.9.	. 25.43.	.2515		. 2843	.8790	0345 0477 0602 1010	1123 0441 .0250 .2270	.245	DEPE-WENT	.0700	M C	327	2000 d	1001.
ED PRESSURE	AMES	н		.0460	.2831	.3037	. W+4. . W+4. . R	4005	.4222		6504.	.8210	.0378 .0569 .0091 .0314	.2955 .4135	5		.0460	4088.		0.837. 0.837. 0.808. 0.808.	. 5640
TABULATED		BETA (2)	_{મુ}	.0230	.4218	.5333	.5749 .5785	.5780	.5382		.5082	.7790	.0965 .1003 2467 0608	7315. 5315. 6049. 5825.	TA (3)	ig Se	.0230	() ((*) () ()))))	TO MINE	n 5 6
			R FUSELAGE	.0080	. 8888		1001	, 0			.7382	.7290	.0790 1874 1297	0337 0317	99- BET.	P FUSELAG	. 0090	(C)		9+75.	
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				9180	5074	5216	4574			
				.2040	2671	3861	1.494	1.0460	. 1348	
· .	FUSELAGE			.1770	.4403	.5173		1.0180	.3499 .202	
::-073-	LA CRB F			. 1660	.7248	8354	.8517	0666.		+ + + -
ULATED PRESSURE DATA - DAIHE (AMES ::-073-1)	AMES 11-07310A148) -140A/B/C/R GRB FUSELAGE		RE CP	. 1580			. 8938	.9600	1837	0585 1364 2668
1 - 0A14E	OA1481 -		DEPENDENT VARIABLE CP	.1120	.3457		. 2999	.9210	0990	
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io F		W. GG.	1 1 CP 3 1 TE	. 0000			1.3360	.6520	. 0203 . 0854	- 00.75
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AMES 11-073-1	9AB			. 1660	7344	0666.	;	2487 1794	O		. 1660	B711.	1535	. 2381 . 2381 . 4400	.7720	.8346	.8213	0656	
_	-140A/B/C/R		BLE CP	.1580		.9600	1826 .0654 .0311	2815 1799 1555 3789	1.2457	LE CP	. 1580) age.	.9530	1258 : 494
A - 0A148	11-073(CA14B)		DEPENDENT VARIABLE	.1120	.2452	.9210	0205 0058 0317 1533	2492 1520 0458 .0695	MACH =	IT VARIABLE	.1120	1509	1901	1559 1564 2005	.2217		.2463	01 <u>50</u>	0203
PRESSURE DATA		-3.853	30×3430	.0700	. 1556	.6790	.0504 .0322 0806 1656	1157 0896 .0197	M 671.	DEPENDENT	.0700	. 2819 0845.	2829	. 195 5	. 1559		.1770	.8790	0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	AMES	n ~		.0453	. 3238	.8210	. 1 260 . 1378 - 1425 - 0205	. 1715 . 1515 . 5157	•		.0460	. 3947	.38+7	.3541 .3451 .3361	. 3338		.3170	.8210	.1359
TABULATED		BETA (1	AGE	.0230	.3692	0677.	. 1733 . 1752 3216 2774	. 1086 . 0937 . 0856 . 1213	BETA (2)	GE	. 0230	.5535 .5631	.620 3 .6061	.5727 .5535 .5033	.4315		.3879	2077	8698 9408 9408
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57 57		p		.0303	1.3731	.6520	. 1356 1350 033	1675 0389 0311	= 7.9	1.10RB1TER	. 6000	1.3767					1.3757	.6520	25. 88.
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	B+:40 -	1 181.4		VERIAB	.9210	1307 2025 3159	. 2895 . 951	1263 0607	• •	VARI	. 1180		1735	9.25. 9.35. 8.35. 8.35.	1.181.		1715.	.9210	0291 0336 2148 1952	4805 4045 8884
	4. AC ∃=0	11-67310	m	DEPENDENT	.8793	1169 2258 2923		.0231 .1753	2++ MACH	DEPENDENT	.0700	1997	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	1972 1581 1445 1361	M + 11 - 1		9/9!	.8790	. 3552 - 1409 - 1409 - 3558	2122 1461 6911
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			RESTA	FISELAGE	0 61.	- 2438 -		. 6355	e H	R FUZELAG	. 3383	8200		원 1 신년:			.5723	. 7293	.1525 2986 853	-, 0652 -, 6070
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.5740 .1375 1581 3.0223 8 PAGE -.1522 -.1976 -.4335 . 1245 .4970 .1247 -.1061 -.0649 -. 156¥ Z Z -.0583 -.1216 -.5624 .3780 1045 .1783 -.2117 -.2407 -.2781 (XEBB63) 552.04 .3010 -.0529 -.0790 -.3874 .1397 .1570 -. 3452 -.4538 -.5397 -.1250 -.1729 -.2061 .2510 .1449 -.6000 . 1999 -.5372 -.5600 .2040 .9590 1.0180 1.0460 -.5512 .3779 -.4675 1.0460 599.56 (JA.) -140A/B/C/R ORB FUSELAGE .1770 .5824 5985 1.0180 .5242 3491 - A148 (AMES 11-073-1) .1660 1927 2005 2460 1991 1931 2453 4700 8648. .9990 -.354*2* -.3096 8432 .7621 ø .9600 -.2030 -.1876 -.2410 -.3936 .1580 .7889 .9600 -.0846 -.1179 -.1043 -.1626 -.2139 -.4115 1.2456 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.1358 .9210 .0315 .0398 -.1270 -.1167 .1120 -.2249 -.1707 -.1689 .2365 .3007 .2564 .2394 .2038 .1398 . 1272 .9210 MACH .1219 .8790 .1215 .0959 -.0627 -.1650 .0700 3505 3565 3172 3881 3172 2790 1749 -.1669 -.1404 -.6722 .1125 . 0909 .8790 -3.850 TABULATED PRES .8210 .3978 .2290 -.1916 -.0729 .0246 .0460 .2342 .8210 ...852 ...5066 ...5097 ...4032 ...4032 .2252 .0561 .1796 .3095 4437 <u>@</u> BETA (1) .7790 .1876 . 0230 .6654 7102 7809 7361 .6637 .6733 .2485 .3614 -.3614 -.2855 -.0069 -.0452 -.0452 .0455 .7790 3351 BETA SECTION (1) CRBITER FUSELAGE SECTION (1) ORBITER FUSELAGE 6400. .7290 .0080 .7522 .4585 -.3831 1.1138 .7290 .2785 -.2089 -.2114 -.0483 = 11.969 7.897 .6520 -.0137 .0000 1.3205 .6520 . 1863 . 2233 . 2555 . 1675 . 1132 . 0689 . 3511 . 1934 1.3205 ALPHA (4) = ALPHA (5) PHI 165.000 180.000 20.000 50.000 50.000 70.000 90.000 1140.000 151.000 165.000 165.000 165.000 165.000 70.000 0.0000 0.00 X/LB X/LB 표

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FUSELAGE
ORB
-140A/B/C/R
11-07310A148)
AMES

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	6		.4970	.1235	. 1052	2257 2549 2271	.0916	.0525	6440				3.0		. 0764.	86 = 1	. 6170.	30 ⁴ 9 2 ⁴ 83 1 ⁴ 47
ଳ	FARKE		.3780	.1619	. 1453	- 1309 1840 5550	•	8164.	.2006				FBV/L		3780	1666	. 1137	2003 2390
(XEBB63)	552.04		.3010	.1535	. 1292	1257 1522 4384		.3635	.3234				552.04		3010	1486	. 1023	1794 2034 4750
	•		.2510	.1354	.1532	1792 2286 2701		- 5155.	.5788						. 2510	.1382	. 1052	2105 2719 3287
	.56 P		.2040	1641	190		0625	- 4516 -	- 57'18 -	.0460	. 2049		95		. 2040			. 0258
USELAGE	= 599.58		.1770					. 5507	•	.0180	.3498 .3498	-	= 599.56		.1770	·	•	•
-140A/B/C/R ORB FUSELAGE	o		.1660	.2013	2006	. 1952 . 1952 . 4267	.7478	.7860	.7799	. 9990	£	-3168	o		.1660	. 1850	1364	.0651 .1722 .3795
-140A/B/C	1.2456	LE CP	.1580						1997	.9600	0851 1110 0219 2374	3786 2803 4051	3456	e CD	.1580			
	MACH =	IT VARIABLE	.1120	. 2250	2427	.1570 .1259 .1326	.1314		.1335	.9210	. 0340 . 0297 . 2152 . 1924	2990 2211 1722 1023	- H	VARIABLE	.1120	7961	1580	.0696 .0471 .0875
AMES 11-073(0A148)	.185 M/	DEPENDENT	.0700	3722	. 3630	. 2025 . 1418	.0899		1660.	.8790	1825 1003 - 2426 - 3298	2052 1368 0716 .1635	.256 MACH	DEPENDENT	.0700	.3557	. 1947	. 1438 . 1251 . 0966
AME	,		. 0460	.4922	.4839 .4005	.3113 .3113 .5584	.2561		.2373	.8210	.2317 .2317 .2019 .0991	. 1621 . 1621 . + 186		ŭ	.0460	2887. 28974.	.4036	. 2236 . 2083 . 1955
	BETA (2	4 GE	. 0230	.E674	.6893 .6179	.5491. .5045 .4167	.3218		.2716	0677.	. 2938 . 3163 - 4211 - 3429 - 1939	.0386 .0386 .0392 .0721	TA (3)	H	. 0230	.6511	.5878 .4891	.4334 .4087 .3535
	.877 8	ER FUSELAGE	.0080	1.1207		.6155			+15++.	.7290		1332 0968 0223	90 BETA	R FUSELA	.0090	1.1098		.4638
	9.11.	1) ORBITER	.0000	1.3276					1.3276	.6520		0882 0627 0385 0356	= 11.890	1) ORBITER FUSELAGE	. 0000	1.3184 1		
	A.PHA (5)	SECTION (X/LB	PH1 .000 80,000	40.000 55.000	70.000 90.000 120.000	150.000 151.000	162.000 165.000 169.000	190.000	X/LB	PHI .000 40.500 70.000 90.000 105.000	150.000 155.000 150.000 165.000	ALP44 (5)	SECTION (x/L8		#5.000 #5.070	40,009 40,009 120,000

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TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	. 4.256
BULATI		3
2		BETA
		11.890
DATE 10 FEB 76		ALPHA (5) = 11.890 BETA (3) = 4.256

PAGE 967

(XE8863)

)	060.11			4.636										
SECTION ! 110ABITER FUSELAGE	110881	TER FUSE	LAGE		DEPENDE	DEPENDENT VARIABLE CP	BLE CP								
X/LB	.0000	.000	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	. 3780	.4970	5740
PH1 140.000 150.000 151.000			.2911	.2310	. 0608	6460.		.6638	.4335	1535	5980	4083	- 1 88	0582	!
165.000 169.000							į	.7650	.489z	4592	5463	3324	1960	0454	
180.000	1.3184	.4147	.2695	. 2583	. 1068	.1139	.7581	. 7930		5667	5214	3457		0606	
C/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PHI . 000	1790	. 2980	.2912 605	2096		.0249	0842		.5211	.3750					
90.000 90.000	2143 1187	3642 2456	. 4238 2719	1879 1478	. 2618 - 3251	2338 2832 2832	1196 0389 2541		3401	.2149					
110.000	0457	1070		1010		4603	3276	3845							
150.000	0329	0371	. 1220	.3478	1585	2367	2908								
180.000	0538	0489	. 0586 . 0586	8444	. 1358	1702	4213								

TABULATED PRESSURE DATA - 04148 (AMES 11-073-1)

PAGE SEB

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11-073(04148)
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ابد)		55.000 -4.000 1.100	3.1905	i !	3740	<u>:</u>	6+00	0355														
8 5					0.4870		1061	1525	0109	0127 0355	0392	1	0355	0326								
: (+98	IC DATA	SPOBRA L-ELVN MACH	FRVL		.3780) 	1296	1587	0862	0971	1743		1966	2319								
(XE8864)	PARAMETR 1C	5.000 16.300 -4.000	- 709.54		.3010		1416	2004		325t 5461	3335		č8č5	2302								
		RUDDER = BDFLA° = R-ELVN =	۵		.2510		0909	2436	4031	3593	5238		1. 468	4422								
		504	598.93		.2040		0629	2466	0003 0183	0852	0278 2912	ţ	4503	5715	1.0460		1435	9600.				
- 140A/B/C/R ORB FUSELAGE			* 59		.1770						į	.6009			1.0180		.2373	.0563				
C/R ORB			ø		. 1660		0195	- 1587	1217	. 1005	.8329		.8882	.8206	. 9990					3075)	
- 140A/B/			1.0981	BLE CP	.1580								8	. 3810	.9600		3537	5050	1314	.0871	1029	0211
11-073(04148)		222	MACH	DEPENDENT VARIABLE	.1120		1000	0722	27.47s	. 4962	.5799			.5777	.9210		1982	שליטי. מינים	.1574	0892	.0217	מ נמכ
u		6800 IN. 0000 IN. 0000 IN.	0 + 8.	DEPENDE	.0700		.0159	0082	3014	- 4835 - 4832	5497			.5386	.8790	1	ייייייייייייייייייייייייייייייייייייי	0000	.0692	1048	0235	מממט
AME		= 1076. = 375.	. = -3		.0450		.0780	3050.	3929	.6045	45+9·			.6121	.8210	:	0541	454B	3538		5479	
	ITA	XMRP YMRP ZMRP	BETA (1	AGE	. 0230		. 135 i . 1649	3.485	.6274 .7774	7.847	.782:			.7251	.7790	į	96/201		3143	.4780	.5276	227.10
	REFERENCE DATA		3.95i B	ER FUSEL	. 3080		. 5554		P P P P					.9765	. 7290	į	, oo .	4150	. 1292	.2191	1	ອຸດ ດີດ ດີດ ດີດ ດີດ ດີດ ດີດ
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		SPEF = 2	ALPHA (1)	SECTION (1) ORBITER FUSELAGE	XILB	H.	20.02	40.000 55.000	70.690 90.089	120,032	150.000	152,000 165,000	169.000 174.000	187.000	X/LE	Fu;	000.0+	75.000	90.000 175.000			21.0 . 1.1.

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N PRESSIEE DATA

1 96		3.1905		.5740	. 0099	. 1905		.5740	. 0325
PAGE 9		•		.4970		*		0.64.	1055 0920 0185 0185 0403
	(+ 9	RNA		.3780	1248 1147 2556 2119 2304	FBN/L		.3780	1333 1440 1167 1217 2168
	(XE8864)	. 709.54		.3010	. 1418 1873 2228 2228 2053	= 709.54		.3010	1443 1902 3057 4677
		·		.2510	0861 1921 4724 3992 54830 5485			.2510	0931 1667 5259 5091 4901
		598.93		.2040	0456 0847 10887 1058 1058 4809 4809 1.0460 1.0460	598.93		.2040	0428 0580 1387 1389 1508 3040
	FUSELAGE	* 590		0771.	. 5359 1.0180 1.0180	a		.1770	
AMES 11-073-1	ORB B	o		. 1660	. 01101 . 0334 . 1046 . 0518 . 0518 . 2536 . 9539 . 9539 . 9539 . 13351 . 102	ø		.1660	0171 0583 0583 0351 .0009 .0019
_	-140A/B/C/R	1.0981	RE CP	. 1580	.9703 .9600 .9600 .03311 .0135 .0135 .1763	1.0981	BLE CP	.1580	
1 - 0A14B	-073(0A148) ·	MACH =	IT VARIABLE	.1120		MACH =	NT VARIABLE	.1120	0520 0213 .0363 .1047 .1155
RESSURE DATA		.196 M	DEPENDENT	.0700		.273 M.	DEPENDENT	.0700	87.00- 87.00- 87.00- 80
9.	AMES	#		. 0460		± "		.0460	00700 00700
TABULATED		BETA (2)	AGE	. 0230	1392 1582 3021 4308 5192 5593 6689 7355 7357 7357 7357 7357 7357 7575 7	BETA (3	AGE	.0230	1375 1358 1358 1359 14077 14057 1508 1508
		38 8+6	FUSEL	.0080	.5529 .9691. .0312. .1115. .3080		FUSEL	. 0383	7. E 3.
3 7G		B.83	1 3 CRB1 TER	. 0000	1.3239 1.3239 .0550 .0554 .0015 1.379 .1379 .1533	, hi	1) CR91 TER	.000	# CD 19 19
DATE 10 FEB		ALPHA (1)	SECTION (X/18	PH: 620.000	ALPHA (1)	SECTION (x/L8	T COMPOST

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(XE8864)

4.273

BETA (3) ≠

-3.942

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(07/6							5.1909		.5740	0359	0293				
1	. 4970	0361	0351	O444				•		.4970	1045	1080	0486 0518 0854	0599	0502	
	.3780	.2886	.2578	.2196				RN/L		.3780	0862	0791	1371	1795	2193	
	.3010	2706 -	2355 -	2339 -				708.37		.3010	0830	1220	1423 2364 5495		3778	
	.2510	5347	5504	4235				•		.251	0373	1191	3868 3533 2950	6148	-,4980	
	0402.	4725	4291	5765	1.0460	.1374		539.80		.2040	0119	- 123	. 0372 - 0224 - 0440	0772	4951	
	0771.	.3527	1434.		1.0180	.0763		• 539		0771.					.5660	
	.1660	.6746	.8128	.8372	0666.	Ç	200 200 200 200 200 200 200 200 200 200	o		. 1660	6120.	0303 0303	.1639 .1639 .1975	7608.	ķ	ë
LE CP	.1580			.9192	.9600	3739 4586 0010 0779	3534 2371 2299 4119	1.0998	LE CP	. 1580						.9393
T VARIAB	.1120	.4783		5772.	.9210	2984 2985 1203 2092	3076 2125 1670 0820	MACH #	T VARIABLE	.1120		.0537	. 1923 *775 . 318*	5090		
DEPENDENT VARIABLE	.0700	. u536		.5361	.8790	2453 2549 0080 0622	2854 1702 0574 .1425	.863 MA	DEPENDENT	.0700	.0835	. 1048 . 1048	.3270 .3525	.4536		
-	.0460	.5623		.6166	.8210	1570 1468 -2860 -2941	. 1440 . 6093 . 6055	8 H		.0460	.1676	.1653	. 3556 . 4255 . 4751	1 表		
35	. 0230	.6669		.7341	.7790	0756 0739 .2181 .2739	.3518 .4361 .4663 .4743	BETA (1)	ij	.0230	.2550	. 2369 . 4634	9090. 9499. 9499.	6749		
R FUSELA	. 6080			. 9490	.7290	0269 1180 1700	. 2835 . 2835) }	R FUSELAGE	oedo.	.6913		.9637			
110RBITER FUSELAGE	.0000			1.3104	.6520	.0446 .1539 .1730	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		110R81TER	. 0000	1.3289					
SECTION (X/LB	PH1 140.003 150.000	168-000 168-000	174.000	87/X	# 500000 0000000000000000000000000000000	20000000000000000000000000000000000000	PHA	SECTION (X:LB	116	20,030	(2000) (2000) (2000) (2000) (2000) (2000)	ပင္း ဂိုင္လပ္ ဂိုင္လပ္ ဂိုင္လပ္ ဂိုင္လပ္ ဂိုင္လ	151.030 162.000 165.000	163 009

(AMES 11-073-1)
TABULATED PRESSURE DATA - 0A148
DATE 10 FEB 76

A. PHA (2) =

(XE8864) AYES 11-07310A148) -140A/B/C/R ORB FUTELAGE -3.853 BETA (1) = .053

ĺ	υν/ς.					3.1909		.5740	0292	.0038						
	.4970	0443						.4970	0979	0861	0587 0538 0391	0259	0205	0263		
	.3780	- 8952				RN/L		.3780	0880	0842	- 1875 - 1766 - 1550	2043	2407	2542		
	.3010	3025 -				708.37		.3010	- 6880 -	1219 -	2163 3165 6089	3852 -	2983 -	2781		
	85. 0150	5206 -				•		850 800	- 1324 -	0947	4318 4318 3875	5810	5222 -	6182		
	.2040	- 0809	1.0460	. 1638				.2040	7800	-		4676 4676	5023	5504	1.0460	.1881
	.1770	•	1.0180	.1616		599.80		0771.				1 1 1 1	5049		1.0180	.1411
	. 1660	.7742	0666.	900 00 00	9118.1 6418.1	o		.1660	.0348	.00. .001	. 1034 . 1221 . 3223	.7384	8538	.8118	0666.	
E CP	.1580		.9600	2994 4363 .1342 .0996	0485 1091 4034	1.0998	LE CP	.1580						.9314	.9690	2687
T VARIABLE	.1120	.5018	.9210	2124 1694 .1638 .0855	1514 0714 0086 0567	MACH .	I VARIZBLE	.1120		. 0224 . 0649	. 1480 . 2081 . 2396 . 3931	.4805		.5124	.9210	1687
OE=ENDENT	.0700	#27±.	.8790	- 1420 - 1652 - 0658 - 0790	1416 1069 0135 2542	.183 MA	DEPENDENT	.0700	.0913	.0882 .0882	2255. 2255. 2845. 7748.	.4221		.4505	.8793	1625
_	.0460	.5099	.8210	0608 0492 .2695 .2704	. 2969 . 4323 . 4056			.0460	.1780	. 1666	.3629 .3629	515		.5203	.8213	CG
ы	. 0230	.6067	.7790	.0296 .0296 .0502 .1578	.3850 .4511 .4456 .4554	ETA (2)	_ા	. 0230	.2627	.2821	5857 5857	.6352		.6206	0677.	.0305
PUSELA	.0000	.8528	.7230	.0564	1751.	33 290.	P FUSELAGE		.6957		.7265			.8465	.7290	₹ 2000
1) OPBITER FUSELAGE	. 0000	1.3289	.6520	.1033 .0247 .0355	.0349 .0886 .0935	0.	1.10P31TEP	0000.	1 3375					1.3375	.6520	. con . con . con
SECTION (7LB	PHI 180.000	/rB	PHI .000 .000 .70.000 90.000	110,959 120,060 135,000 150,000 165,000		SFCT: CM :		PH1	20.000	25.000 70.000 90.000	140.000 150.000	151.000 162.000 165.000	174.090 174.090	(/LE	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	. 183
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	BETA (2) =
	. 062
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	ب م
	ALPHA (2) .

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1	
DATE 10 FEB 76	

ORB FUSELAGE
ORB
-140A/B/C/R
11-073(04148)
AMCS

					3.1949		5740	8455	0700.													
					٠ -		.4970	0587	0561	1057	1726	0837	6552	0532								
(XE8864)					I RRVL		.3780	0261	-,0048	1393	3105	2093	2244	2493								
(XEB					709.31		.3010	0338	0396	1236 1854	5409	4956	4464	3563								
					۵.		.2510	.0133	0151	3303	3173	6789	6072	5906								
			1.0460		600.25		. 2040	.0441	.0129	. 0822 . 0873	0032	3298	5532	6585	1.0460	7000	. 1015					
FUSELAGE			1.0180		• 60		.1776					.5039	. 5555		1.0180	345	. 2206					
C/R ORB			<i>3</i> 666 ·		O		.1660	. 0948 8.00	. 0929	9721. 5721.	~ 5 .	.7916	.8205	.7329	0666.				3321	2321		
AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE		BLE CP	.9600	4177	1.0995	3LE CP	.1580							- 900s	.9600	5496	3863	.0604			9171	4 097
(0A14B)		DEPENDENT VARIABLE	.9210	1319	MACH =	DEPENDENT VARIABLE	.1120	9	. 1561	3006	£.	.4353		.4305	.9210			0410			0740	
5 11-073	4.253	DEPENDE	.8790	8601.	3.865 M	DEPENDE	.0700	9171.	.2166	.33. 7.86.	. 3665	.3480		.3375	.8790	0704	6+60	0376			0839	
AME	11		.8210	. 4641			. 0460	.2644 .2644	3380	. 4601 1004	CD/ 4.	.+350		.4137	.8210		0405	1432		ភព ភូព ភូព	3:51	.3870
	BETA (3)	AGE	.7790	.3983	BETA (1)	AGE	.0230	.3815 1.261	.5726	.5538 .5538 .5588	//60.	.5638		0684.	.7790	.1284	14 to 1	0+01 2751		3111	. 3.55	3 K.
	G29 B	1) ORBITER FUSELAGE	.7290	5415.		ER FUSELAGE	.0080	.8262		.8255				ZT17.	. 7290	:705	1320	1.1914	•	8 0e0	# !!	(m)
	tı	1008817	.6520	.0360	± 4.021	1.10AB1TER	. 0300	1.3224						1.3224	.6520	.1553	1097	6231	•	c. co	មិន ស្វី	# CO
	ALPHA : 2)	SECTION (X/LB	P41 165.000 180.000	ALPHA (3)	SECTION :	X/LB	PH1 .000	40.000 10.000	73,000 90,000	000000	151.000	155.000 169.000	190.000	X/LB	P+1	40.000	95.000	110.000	2 th 3 th 3 th 3 th 3 th 3 th	0000	

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(46)	6		.3780	0330	0256	2045 2488		.2254	02.42	 						ă		7.B0	•	. 0636 -	2597 2597 1917
(XEBB34)	5000		.3010	0279	0540	2108 2650	.4639	. 3522	.3317 -							700 Z	?	3010	•	44.00.	2836 3339 6480
	ů.		5.50	. 7610.	. 3316.	.4113	.6792	- 5742	6677 -							•	,	0183	·	.0253	- 4276 - 4697 - 4664
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JSEL AGE	800		.1770			' '		.4811	•	.0180		2050				600,25		. 1770	•		
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H0A/8/C	.0995	C C D	.1590						8288.	9500	. 2552	3444 .0379 .0346	0311	2718 · 2462 2276	4514	. 0995	9	1580	•••		
		VARIABLE	.1120	.0806	1923	.2535 .3705	4213		. 0444	. 9210	•	1203 .0449 0675					VARIABLE	. i 120	525	.1002	1641 1853 3123
11-073(0A14B)	78 MACH	DEPENDENT	.0700	1786 1465		. 2452 . 2452 . 2946	3299		3517	. 0679.	.0585			1978: 1390:	t	MACH	DEPENDENT V	0700			. 1517 . 1517 . 2038
AMES	. 178	ö	0460	6 4	59 59 7	. 3534 . 3534 . 3973	4212		4174	9510 .	•	. 1349 1349 1152		1088 - 1 3651 - 1 4828 - 0	5629	4.243	OEP	ე. დეონ	• •	• •	31.77
	n lu		0230			5634	5313		5093	3. 0677	279	6336 6336 6336 6436		67176. 87176. 87478.	•	3: *		33			15. 47.24. 15. 47.24.
	9E T A	FUSELAGE	. 0800	. 2028	•	0889	•;		7160	. Ses	5.5	2497 1784 0. 4871	•	5. 4250 5. 6250 8. 8250	7.65 Bar	BETA	FUSELAGE	.20° .08°	38. 38.	7	395 74
	t. G2:	1) OPB ! TER	0000	3281		ų				r. en en	in c	102 - 12 103 - 11	c c	· ·	0.00	÷. 024	TER	g: gc	αį		Ŗ.
	# M	_	j.	<u></u>	388	<u> </u>	ក្រុង	200c	. I. 32	ŗ.	•		č		•	# F	(BEC:10)	B	1.3157		
	AT PITA	SECTION	X/LB	# .63	55.00		្តីស្ត្រ ស្ត្រ ស្ត្រ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	()	%7¦B	1	90.00 00.00 00.00 00.00	110.600			A. Fr. 4 . 1	SECTOR	4 7/5	ີ່ ຄູ	,,,,,	ပ်ခ

PAGE				0.1970	0387	9 8. 49	0550						0.69.	. 0082	.0063	- 2223 - 2023 - 2713	1CB9	0788
	(+ 9			.3780	2210	2503	2519				FBN/L		.3780	.0387	.0643	1325 2023 5634	. 2489	. 2368
	(1)(\$8824)			.3010	3850	3498	-, 3597				709.31		.3010	1220.	.0377	1188 1673 5156	5875	- 5069
				.8510	6±34	6562	5750				•		.8510	.0673	. 1685	2760 3193 3330	7327	6823
				.2040	3831 5867	5639	6756	1.0460	.0551		8 2.		.2040	1246	1334	. 07.18 0.050		6067
	FUSELAGE			.1770	.3357	4019		1.0180	.1789	•	- 600		0771.				į	c/84.
AMES 11-073-1	ORB B			. 1660	.6400	.7485	.7596	0666.	ğ	3251 3251	G		. 1660	.1361		15.19. 17.14. 17.14.	T11T.	. 7902
~	-140A/B/C/R		BLE CP	.1590		Š	. 8383	.9600	2601 3168 0820 1313	4304 3373 3294 4285	1.0995	ALE CP	.1580					.862
A - 0A148			DEPENDENT VARIABLE	.1120	. 3828		.4336	.9210	1610 1643 0935 2223	3821 3317 2646 1747	MACH =	IT VARIABLE	.1120	94	4.4.4.0.0 C. C. .3139 .3579	.3580		
ABULATED PRESSURE DATA	AMES 11-073(0A148)	4.243	DEPENDE	.0700	.2847		.3399	.8790	0727 0877 0339 1514	2970 2423 1469 .0875	.859 m	DEPENDENT	. 6700	. 2611	3202	.3352 .3252 .2354	55±2.	
TEO PRES	AME	#		.0460	.3834		860 ⁴ .	.8210	.0306 .0421 .1201 .0909	0029 .2810 .2853	H		.0460	. 3647	4361	#444 #320 #850	IDEE!	
TABULA		BETA (3)	AGE	. 0230	¥83+		.5004	.7790	1218 131. 134. 1408 10249 1232	. 1845 . 2838 . 3157 . 3129	BETA (1)	IGE	. 0230	.5127	.669:	.6308 .6308 .6408	י ליחניו.	
		4.024 Bi	TR FUSEL	. 0080			. 5848	. 7290	.1708	.0358		110RBITER FUSELAGE	. 0380	. 9455		£1777.		
3.76		 	1) ORBITER FUSELAGE	. 0000			1.3157	.6520	. 1755 . 1755 0420 . 0088	.0916 .0757 .0757	- 7.977	13 ORBITE	. 2000	1.2919				
DATE 10 FEB		ALPHA (3)	SECTION (X/LB	PHI 140.000 150.000	162.003 165.000 169.000	180.000	X/LB	941 40.000 70.000 95.000	150.000 150.000 150.000 165.000	ALFHA (+)	SECTION (X/LB		(0.0	ico en co e	3 63 5	

g

.0183

57.0

ALFAR (4)	7.	7.977 Bi	BETA (1)	-3	3.859								;		
SECTION (1198011	:JORBITEP FUSELAGE	3GE		DEPENDENT	INT VARIABLE	NBLE CP								
X/LB	. 0000	.0083	. 0230	. 0460	.0700	.1120	. 1580	. 1660	.1770	2040	.2510	.3010	.3780	0.63.	13. 13.
PH1 160.000	1.2919	.5735	.3664	.3140	£443.	.3680		.6982		7078	6385	3972	2158	0603	!
X/LB	. 6520	. 7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
#1 # 100 # 1	22455 2409 40984 1070.1	.3271 3271 2559	.2011 .2219 2853 2876 2750	. 0987 . 0360 . 0360 . 0879	0069 0389 0014 :461	1135 0593 .1013 0022	2237 3158 . 0836 . 0355		. 2709	. 1255 . 1255					
10 6000	1.1599 1.0070 1.0070 5.0070	1834 0533 .0106	.1710 .1623 .1701 .2253	.1079 .3355 .4058	1779 1895 0540	2172 1734 1350 0481	0317 1646 2194 4354	2523 2523							
ALFIB (+)	b (2)	38: 86	ETA (2)		.181 MA	MACH .	:.0995	a	• 600	600.25	• a.	709.31	1/28	•	3. 19St
SECTION (11098176		AGE		DEPENDENT	IT VARIABLE	BLE CP								
87/X	a_65.	. 3690	.0230	. 0460	.0700	.1120	.1583	. 1660	.1770	.2040	.2510	.3010	3780	0 79 1.	5740
80. . 300 €0. 500	1.2950	. 9552	5187	.3746	9.00 9.00 9.00 9.00	7. 14. 14.		1465		7611.	54Z0.	. 0397	.0358	. 3160	- D204
000 000 040 040			.5987	3850	2775.	2.15. 8415.		1658		1119	. 0546	.0129	. 7650.	£0 8+	. DØ#1
90.000 80.000 100.000 100.000		.6389	. 5248 . 5248 . 4822	37.03 37.03 37.63 37.63	. 2352 . 2335 . 2269	.2524 .2524 .3368		. 1618 . 1869 . 3578	, ,		3235 3765 3973	2053 - 2450 -	1987 36.65	2117 :819 1499	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2614.	. 3226	.2300	.3639		.6939	1714.	5031	7365	- 153-1	- 8815.	Q690*	
1000 1000 1000 1000 1000							0	.7483	·	6040	6300	- 800%	- 6202.	8	
() () () ()	1.2950	.5627	.3830	.3091	.2505	.3814	900	.7311	•	. 7370	7517	3797 -	- 966!	.0433	
di X	. 6520	.7230	.7790	.8210	.8793	.9210	.9600	. 9990	0. 10.1	1.0460					
0 0 0 0 0 0 0 0 0 0 0 0	.2505	5725.	.269 4 .7760	1028	. 0027 .	1043	2099 28%		. 4335	. 1182					

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(#.9683K)

TABULATED PRESSURE DATA - 04148 (AMES 11-073-1

AMES 11-073(0A148) -140A/B/C/R 098 FUSELAGE

9 96.0 .0151 - 1838 - 1417 - 1959 4970 . DD42 -. 0365 -. 0450 P. 19479 - 059 Ž . 258 827 757 .0373 STE. -.0140 -. 1963 -.2053 -.2290 709.31 -.2792 -.3138 -.6310 6444.-.0388 -. 0209 .3010 -.404S -.3926 -.3703 -.4359 -.4660 .6331 <u>8</u> .0667 ¥ 10. -.6726 -. 7311 .2040 1114 00854 0404 0404 04126 1807 1807 1899 1899 1.0460 755 1 600.25 1.0180 .1770 .3310 .4279 :.0180 -.3510 . 9990 . 1560 .1444 .1328 .1444 .1079 .1153 .1363 .7188 0666. -.4045 .7268 .6237 . 0060 - 0424 - 0424 -.2700 -.2781 -.2745 -.4337 9600 -.2192 -.2698 -.1000 -.1262 -.4983 -.3655 -.3709 . 7999 1.0995 ამწე မ DEPENDENT VARIABLE CP DEPENDENT VARIABLE .0240 -.1013 -.2352 -.3108 -.2535 -.2214 -.1551 Ħ .1120 .9210 -.3970 -.3481 -.3199 .1401 .1642 .1451 .1652 .1964 .3010 .9210 3412 3712 4.237 MACH -.0641 -.2693 -.1762 -.1121 -.0844 .8733 .0700 .2529 .2168 .2179 .1811 .1446 .1366 -.0110 -.0320 -.1525 -.2245 -.2937 - 3553 - 2553 - 1910 .2350 .8790 .0371 .0086 .0511 .8210 .3500 5363 .0460 .3347 .3347 .3151 .2359 .2397 .2392 .2392 9.00 a. .3232 .8210 .0341 .0246 .0150 ũ BETA (3) -.3917 -.1981 .0272 .7793 .1308 .1831 .2435 .2756 .2975 .5049 .4923 .4982 .4782 .4782 .4784 .4784 .0230 3855 . 3939 .1972 -3152 -.3180 -.1276 .7790 BETA SECTION (1:OPBITER FUSELAGE SECTION (1: SHBITER FUSELAGE -.3419 -.2276 -.1100 .7230 .0080 -.0321 -.0059 .4937 -.3138 -.2072 3440 . 81-8**3** m937+ .7290 - 10:03 7.900 7.331 -.1131 .65.23 .073**5** 0000. -.040.-1.2842 .6520 0.000 000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0. 0000 1.2942 ; ; ALPHA (4) 71. 20. 000 11.00. 000 11.00. 000 11.00. 000 100 32 1.X 87/X Ĭ. 81/X

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DATE 10 FEB 78

FUSELAGE	
ORB F	
-140A/B/C/R	
11-073(0A14B)	
AMES	

A_FHA (4) #

				3.1951		.5740	. 1937	. 2382											
						.4970	.0903	.0938	2340	7469	15/0	1027	0573						
				R2/L		3780	.1167	.1387	1198 1914	7238	6912	2468	1988						
				710.72		.3010	1011.	.1175	1117	.5192	6843	5500	4287						
				•		.2510	.1279	.1355	-,2352		7833	7348	6811						
		1.0460				.2040	1852	. 1871 . 2094	. 1552 . 1552 . 1043			6567	7504	1.0460	.2950	Ŗ -			
		1.0180		* 599.84		.1770				·		47.86 4824	•	1.0180	.5031	.3189			
)666·		a		.1660	.2026	. 25 16 1. 25 1	. 2587 . 2585 . 2503	9004.	. 7551	.7605	.6865	0666.			3594		
	LE CP	.9600	4516	1.0980	LE CP	.1580							.812/	.9600	186¥	2208 0636 1228		_	\$8\$\$.'-
	DEPENDENT VARIABLE	.9210	2513	MACH =	DEPENDENT VARIABLE	.1120		.3185	.291 2 .2886 .2837	. 2369	.3075		.3165	.9210	0674	0368 1608 1959	1. 2545 1. 2545	1973	0927
4.237	DEPENDEN	.8790	.0175	3.844 MA	DEPENDEN	.9700	.3564	.3547	.3816 .3148 .2884	.1837	.1319		.1513	.8790	.0651	. 0899 - 0898 - 0898		1310	
j. H		.8210	5164.	# Ki		.0460	.4693	.4926 .5297	.4964 .4362 .3906	1052.	. 2242		.2277	.8210	. 1609	. 1949 0088 .0057		. 2892. 41 44.	.5159
BETA (3)	냻	.7790	.2624	BETA (1)	GE GE	. 0230	.6368	.6917 .7502	. 57070 . 6344 . 5725	6244.	.3195		. 2453	.7790	.2623		י ממטיי ממטיי	. 0695 . 0662	. 1583
	R FUSELAGE	.7290	1010.		! 107BITER FUSELAGE	.0380	1.0543		.7148				.4226	.7290	.3257	3625	100.	•	0386
- 7.960	1) ORBITER	.6520	.0888	= 11.919	: 10RBITE	.0000	1.2382						1.2382	8. A.	3245	. 444 1356 6715	97		.0416 .084
()	ECTION (e a	PHI 65.000 80.000	PHA (5)	ECTION C	r.	• •					51.939 68.000 68.000 69.000		8	PH1 .000	25 000000000000000000000000000000000000	0000 0000 0000 0000	200	55.033 85.030

979		3.1951		.5740	1751.	.2063									3.1951		.5740	. 1619	. 1534	
PAGE				0.4970	. 1023	.0742	3207	2079	0910	0433	0386				•		. 4970	0260.	.0379	3516 2440 :+66
	(}	RN/L		.3780	.1167	. 1952	2009	6939	2397	1900	1766				RN/L		.3780	7111.	. 0549	2760 3279 3591
	(XE8864)	ST.017 =		.3010	.1123	.0775	1995	5563	5953	-, 4490	4136				710.72		.3010	11.04	.0356	2727 2970 6105
		<u>.</u>		.2510	.1374	.1004	2879	4080	7819	6764	7343				• •		0169.	.1349	. 0522	3282 4038 4634
		599.84		.2040	. 1909	1743	. 1075	0545	4829	+++9	7677	1.0460	. 2953 . 1342		599.84		.2040	1791	1210	. 0732 0088 1417
^	ORB FUSELAGE	# 59K		.:770					.4082	1306		1.0180	.5059 .3194		599		.1770			
11-073-1		o		.1660	.2132	.2217	1628	. 3564	.6781	.7060	.6899	0666.	į	2986	o		.1660	.2107	1693	.1103 .1406 .3017
3 C AMES	-140A/B/C/R	1.0980	RE CP	.1580						į	. 7703	.9600	1679 2198 0805 0549	3589 3043 3221 4461	1.0980	LE CP	. 1580			
1 - 0A148		MACH =	IT VARIABLE	.1120	í	.2651	. 22. 87. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	8552.	.3141		.3271	.9210	0539 0205 0973 2181	3045 3025 2884 2001	# 5	T VARIABL	.1120	111	. 1893	. 1558 . 1856 . 2732
SURE DATA	AMES 11-073(0A148)	.189 M	DEPENDENT	.0700	.3548	. 34.96 . 34.96	. 1851	/651.	. 1201		.1390	.8790	.0695 .0313 1514 1514	3109 2300 1853 0551	.249 MACH	DEPENDENT	.0700	.346; 3753	2769	. 1064 0922 0771
TED PRESSURE	AMES	и		.0450	4764	.4637	.3267	C882.	5155.		.2007	.8210	.1660 .1877 1506 0820	.0958 .3315 .5506 .5505	. 3 *		.0460	1174.	3878	. 19136 . 1915
TABULATED		BETA (2)	IGE	.0230	.6391	.6578	.5137 .4697	1, 55.	\$005.		.2650	.7790	. 2753 . 2973 - 4878 - 3850 - 1456	. 1653 1. 1653 1. 1653 1. 1653	BETA (3)	g.	.0230	6298 6108	100 cm	3753 3753 8259 8259
			TH FUSELAGE	. 0080	1.0598		.5716				.4070	.7290	.3346 4232 3054	1350 0898 0231	.925 8£	R FUSELAGE	.0080	1.0471		.4251
3 76		= 11.930	11 ORB! TER	. 0000	1.2413						1.2413	.6520	.3181 .3334 1213 0676	0459 0392 0889 0889	= 11.9	110PB17ER	. 0000	1.2290		
DATE 10 FEB		ALPHA (5)	SECT 10% 1	X/18	000 · co	1000 1000 1000 1000 1000 1000 1000 100	72.000		18: 300		180.000	X/LB	7.000 70.000 70.000 70.000	150.000 150.000 150.000 150.000 160.000	ALPHA (5)	SECTION (£√.8	80 C	, (, (9000 9000 9000 9000

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(XE8864)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

4.249

BETA (3) =

11.925

ALPHA (5) =

SECTION (SECTION 1 1:0RBITER FUSELAGE	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE CP	BLE CP								
X/LB	.0000	.0080	.0230	.0460	.0700	.1120	.1580	. 1660	. 1770	.2040	.2510	.3010	.3780	0.4970	.5740
PH1 140.000 150.000 151.000			.2753	.2135	6860 .	.3021		. 5980	.3208	2908 5915	7778	-,4956	1908	0562	
162.000 163.000							1	.6875	.3621	6473	6955	4162	1769	0472	
180.000	1.2280	.3812	.2646	.2412	. 1256	.3192	. 7607	.6903		7622	6874	4313	2005	7585	
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	9600	0666.	1.0180	1.0460					
ď.															
000	.3190	. 3242	. 2666	.1578	.0505	0617	1839		.5037	. 2931					
£0.000	.3337		. 2845	. 1783	. 0213	0702	2286		.3059	. 1181					
70.000	- 100:	1224	4682	7 7 7	2185	2176	0795								
000,00	54,410	1682	5560	-, 126.8	3706	2763	6111								
100 040			1160	0661	5360	3900	3333	1							
120.000	.0451	1091	.0265	0511		5101	5913	4615							
135.000			.1458	23.40		3608	- 3997	1							
150.000	±101.	0382	. 24.01	1174.	2010	3351	+504								
165.000	.1078		7545.			3013	- 4696								
180.030	. 0547	0308	2169	.5300											

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

8

.5740 -.0146 -.0389 55.000 3.5768 5 OS AUG .4970 .0073 ..0367 .1101 .0990 .0741 96+0 .0420 .0347 RNI PARAMETRIC DATA .3780 -. 0294 .0611 .0476 .0321 -.0822 .0142 .0184 .0271 (XEBBES) 1057.6 5.000 16.300 14.000 .3010 -.0221 -.0631 -.1444 -.0696 -.1260 -.0629 -.0068 -.0261 -.3973 -.7179 -.6504 -.5766 .8510 -.8533 -.1880 -.7710 -.7650 RUDDER BOFLAP R-ELVN ۵, -.2161 -.2567 -.4388 -.2866 -.3029 -.2300 .2040 -.8316 -.9370 1.0460 .1024 **600.12** .1770 .3318 1.0180 . 2869 . 1104 . 1660 -.2179 -.2646 -.3517 -.1898 -.0945 -.0667 .9990 .6609 .7225 .6421 .1580 .90037 -.1395 -.1014 -.0845 -.3025 .8292 .9600 -.0561 -.1563 -.0364 -.0836 DEPENDENT VARIABLE CP -.2430 -.2431 -.0973 .0619 .1131 .1120 .4146 .9210 -.2655 -.3334 .0777 .0045 -.1225 .4181 -3.837 MACH 868 żżż .0700 -.1675 -.2265 -.2100 .0014 .1280 .2099 .3365 -.4508 -.3320 .0676 -.0032 0+0+. . 3894 .8790 1076.6800 1 10000 375.0000 -.1066 -.1326 -.1076 .0931 .2228 .3094 .0460 -.3430 -.3392 -.2120 -2442 -2865 .5039 4699 .8210 .3790 .4517 BETA (1) = -.0708 -.0465 .1489 .3398 .4660 .5524 .0230 -.2365 -.2317 .0362 .1590 .6433 .5945 XMRP YMRP ZMRP .7730 .3110 .3756 .3755 .3513 SECTION (1) ORBITER FUSELAGE REFERENCE DATA 50.FI .0080 .3601 .8452 -. 1938 -.0150 . 7290 .1156 .1580 -3.955 25:30,0000 : 474,8000 : 936,0590 : 0300 .6000 .6520 . 1268 . 2353 . 0413 . 0651 1.19年 3818 3797 3797 1.19£ ALPHA (1) 20.000 55.000 70.000 70.000 180.000 151.000 165.000 165.000 165.000 165.000 165.000 40.000 180.000 180.000 180.000 180.000 180.000 180.000 180.000 SREF LPEF BPEF SCALE X/LB X/LB

4960

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11-073		
3 C AMES		
- 0A14E		
E DATA	!	
アストングラ	!	
INDUCATED PACSSURE DATA - DATAS (AMES 11-073-1		

!	3,5798)	5740	006¥	0107										2	20/10:	5740	0146	1110.	
•	ا لب	1	4970	.0127	0081	. 0905 . 0763 . 0564	. 053¥	. 0553	0527						•)	0.697	9200.	.0041	.0818 .0679 .3282
365)	FINAL		3780	0243	0378	.0478	.0240	. 0249	.0256						à		.3780	•	1600.	. 0498 . 0481 . 0095
(XE8865)	= 1057.6		.3010	0613	0708	0293 0906 1648	0420	₹.0.±	0090						1057 B		.3010	070+	0463 -	0915 2233 2469 -
	α.		.2510	2051	3494	7636 7271 6730	8370	7370	7256								830	. 1856	3008	.8271 .7418 .8103
	500.12		0408.	2166	3560	4530 4530 4289	4454	8396	9478	1.0460	.1115	0610					.2040	•	•	5839 5867
FUSELAGE	# 60		.1770				7	3120		1.0180	.3030	. 1338			= 600.12		.1770	•	• •	•••
989	ø		. 1660	1.2141 2004	- 3052 - 3052	1763 1702 .0641	.5815	.6901	.6782	0666.			3437		0		.1660	2075	2633	2367 2520 0623
-140A/B/C/R	.90037	BLE CP	.1580					Č	9. 0	.9600	6511	1562 0705 1268		1573 394 3103	.90037	LE CP	. 1583	••	••	, , ,
(0A14B)	MACH =	NT VARIABLE	.1120	-,2255	1333	0176 .0143 .2341	.3715		. 4225	.9210		3359 .0196 0576		1444 1359 1266	#	T VARIABLE	.1120	2206	1984 1580	0832 0795 .1221
MES 11-073(0A148)	.195 M	DEPENDENT	.0700	1693	2038	.0258 .1094 .2257	. 2595		.3991	.8790		3976 0115 1008		2756 1733 .0123	.274 MACH	DEPENDENT	.0700			
AME	ا ا		.0460	0940	1101	.1096 .1832 .3503	.4615		0474.	.6210	3486				.		.0460	.1000		.0034
	BETA C 2	AGE	.0230	0701	.1026	. 3493 . 4303 . 5364	.5878		. 5959	.7790	238+		.2401	1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	BETA (3)	ĢĒ	. 0230			. 3025 . 3025
		JORBITER FUSELAGE	.0080	.3615		.5833			5758.	.7230	2023	0297	¥160°	.1503		R FUSELAGE	. 0090	ወታታይ ·		4249
) = -3.963	••	. 2000	1.2008					1.2009	.6520	1231	. 0292	.0575	.0859 .0859	-3.957	: 10AB [TER	. 0000	1.1819		
	ALPHA (1)	SECTION (X/LB	PH1 .000 .CS	55.000	30.500 120.000 140.000	150.000 151.000	165.000 169.000 174.000	160.033	X/EB	PHT 000 1000	90.000 105.000	1 10 . 000 120 . 000 135 . 000	55. 85.	ALPHA (!)	SECTION (87/X	PHI -030 -20,000		90.000 120.000

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE

4.274

BETA (3) =

-3.357

A. DEA COL

CATE 11 FEB 76

	.5740							3.5759		5740	.0318			
	0.4970	. 0266	.0332	.0358						0.79v.	.0299	.0561 .0561	.013¥	.0156
	. 3780	1000.	.0055	.0133				RAZ		.3780	0200	.0224 .0196	.0243	.0212
	.3010	0500	0168	0065				1057.3		.3010	. 10801	0822 1267 2426	2273	1404
	.2510	8547	7418	7621				.		.2510	1837	5528 5382 5986	9782	8554 -
	.2040	8004 8754	8488	9362	1.0460	.0963		599.62		.2040	1675 1880 2387		2750 3816	9035
	.1770	1176	. 2243		1.0180	.1703		± 595		.1770				57.4E.
	. 1660	1881	.6376	.6637	.9990	7 7 7	. 255. . 255. . 255.	O		.1660	1629 1929 2177	0914 0414 0165 -2030	.6326	.6794
RE CP	.1580			. 7578	.9600	0565 1301 0936 1602	2920 2139 1751 2909	.90007	LE CP	.1580				.7845
DEPENDENT VARIABLE	.1120	.3085		.4136	.9210	3143 3159 0260 1193	2878 2188 3566	MACH	T VARIABLE	.1120	1568	.0165 .1102 .1473 .295i	3448	
DEPENDER	.0700	8783.		. 3898	.8790	4439 4057 1021 2177	6279 4623 3267 1047	E59 MA	DEPENDENT	.0700		. 1042 . 1658 . 1993 . 29~7	.3088	
	.0460	Z80+·		.4698	.8210	.3452 .3349 .0805 .0818	.1102 .3826 .5430 .5268	= -3.		. 0460		.1998 .2687 .3201	. 3999	
띯	. 0230	.5179		. 5885	.7790	- 2359 - 2231 - 0111 - 0708	.1650 .2637 .2966 .3082	BETA (1)	GF.	.0230		. 5029 . 5465 . 5465	.5334	
P FUSELAS	.0080			.8132	.7290	2012 0410 0045	.1199	. 052 BE	R FUSELA	.0080	.5155	.7183		
31:000:1	. 5363			:.:819	.6520	1275 1539 .0181	.0544 .0567 .0552	, .	DORBITER FUSELAGE	0000.	1.2080			
9501:0:e	87/ 81/	# # # # # # # # # # # # # # # # # # #	165.009 169.009	180.000 180.000	/:B	PH1 .000 .40.000 70.000 99.000	150.000 150.000 150.000 165.000	Put (2)	SECTION (,r.	T OU		200 00	O. 63 C) •

AMES 11-073104148) -1404/B/C/R ORB FUSELAGE

	(1) (1) (1)								3.5759	(O¥/C:	.0362	.0510							
	070	2	.0113								0/6h.	.0339	.0198	.0481	.0237	.0255		. 0255		
	2300		.0186						RN/L	1	.3780	.0116	. 0029	20.00 20.00	.0295	2920		9920.		
			0655						1057.3		.3010	. 0625 -	- 0550 -	0868 1137 2057	1529	0190	2	0427		
		010%	.8559						•		83.0	1698 -	2710	7226		grigo		8585		
	•	0402.	- 6440.1	1.0460	.0306				599.62		.2040	1672	1780 2123			į	1618	9301	1.0460	. 1040
		. 1770	7	1.0180	.1577				= 599		.1770					.2078 .2748			1.0180	3014
		. 1660	. 5895	. 9990		3365	2508		o		.1660	1537	1686	1395 1131 1053	£ 50.		.6496	.6301	.9990	
	ы СЭ	. 1580		0096.	0490	-, 0280 -, 0858 -, 1261	1353	1119	.90007	LE CP	. 1580							. 7577.	.9600	0532 1605
	VARIABL	.1120	.3385	.9210		. 0803 . 03046 . 0502	1269		# 5	T VARIABLE	.1120		- 1447	0279 .0294 .0535	.2184 2002	5 .		3475	.9210	2938
69	DEPENDENT VARIABLE	.0700	7462.	.8790		.0583 0107 1073		09460	.179 MACH	DEPENDENT	.0700	0750				oc/ o.		. 2999	.8790	3795
= -3.859	Ω	.0460	.3640	.8210		. 1943 .2212 .2663	3280		.4178	-	.0460			9751. 9751.		. 3/de		.3758	.8210	2545
(1) A	ليا	.0230	.4631	.7790	.1461	.1020	.2786	3289	. 2824 7A (2)	H.	.0230	i	.0992	1000 M	9284	, 490 3		.4803	.7790	1475
2 BETA	FUSELAGE	.0080	.7185	. 7290	.0758	.1635	.0121	.0893	. 0946 .? 054 9ETA	FUSE		i	100 100 100 100 100 100 100 100 100 10	7.7.5	?			. 7052	.7290	0733
.052	1.0981TER	. 2000	.2080	.6520	0290	0359 -	0422	.0127		108B1	.0000	1	1.2132					1.2132	.6523	0264 0617
ALPHA (2) =	SECTION ()	X/LB	PH1 180.000 1	X/LB		70.000 95.000 105.000		1.55.350 1.50.000 1.65.000	5			1 d.	20.05 20.05	46.000 95.000 70.000	200 041 100 041		165.000 165.000	189.000 174.000 180.000	مد.	PH1 .003 40.003

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PAGE							•		0764.	.8257	.0215	.0+13 .0+06 .0525	1010.	.0108	.0082			
	365)						FBVL		.3780	0161	.0038	.0210 .0210 .0146	5710.	.0153	.0151			
	(XE8865)						* 1057.3		.3010	0770	050+	0925 1492 2281	1322	0790	0676			
							o.		.2510	1683	2669	7811 7872 7870		8577	8701			
	1.1			1.0460			599.62		.2040	1717	2095	3313 4967 5622	7508 9178	8738	-1.0574	1.0460	.0967	
<u>.</u>	FUSELAGE			1.0:80			* 59		.1770				.1000	885 855	•	1.0180	. 1626	
AMES 11-073-1	98			J566.	į	3406 2605	ø		. 1660	- 1509	1736	1774 1862 0198	.4586	.5961	.6149	0666.		3395 2746
-	-140A/B/C/R		BLE CP	.9600	1689 1829 1689	2029 1720 1553 2938	.90007	BLE CP	.1580					24		.9600	0456 1315 0997 1539	2638 2121 1885
A - 0A148	(0A148)		NT VARIABLE	.9210	.0214 0566 1182	2143 1695 1678 1706	MACH .	UT VARIABLE	.1120	1416	1142	0352 0255 .1317	.2555		.3401	.9210	3271 3306 0355	
PRESSURE DATA	ANES 11-073(0A148)	.179	DEPENDENT	.8793	0247 1089 2299	3558 3065 2293 0472	.252 m	DEPENDENT	.0700	0892	1022	0260 0127 .0885	.2207		.2873	.8790	- 3793 - 3332 - 1352 - 2618	
	APE	#		.8210	.1237 .1311 .1537	.4137 .4137 .4637	*		.0460			.0510 .0841 .266 6	.3234		.3638	.8210	2705 2536 33 	
TABULATED		BETA (2)	A G€	cerr.	0101 .0600 .1199	. 1920 . 2676 . 2632 . 2634 . 2917	BETA (3)	ige Se	. 0230	.0658	. 1556	.3810 .3810	.4320		.4769	.7793	151.1 1352 9564 2553	2 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		054 B	ER FUSELAGE	.7290	1840 1077	.0530 .0812	050 BE	R FUSELAGE	.0080	.5011		.4127			.6842	.7290	0745 1777	Ci 25 . Cb.38
9 20 31			110881759	.6520	1094 6589	0162 .0195 .0246		1 1 CPB1 TER	.0000	1.1374					1.1974	.6520	0.000 0.000 0.000 0.000 0.000 0.000	. 28183
DATE 10 FEB		ALPHA (2)	SECTION (X/LB	PHI 70.000 90.000 105.000	18 18 18 18 18 18 18 18 18 18 18 18 18 1	ALPHA (2)	SECTION (87/X	PH1 600 20.000	55.000 55.000	96.000	150 000 151 000	165.000 169.000 174.000	180 000	X/LB	P#1 - 033 - 73 - 033 - 033 - 033	9 0 0 0 0 1 0 0 0 0 1 0 0 0 0

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(XE8365) AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE BETA (3) = . 050 A-Din (2) H

			3.5705		5740)	. 0864	. 1080													
					.4970	•	.0638	.0562	.0288	.05190	0176	0077		.0500							
			EN L		.3780) - -	.0030	.0194	0293	0312	. 0047	.0342		.0425							
			1059.3		.3010		0600	0416		2132	4260	4258		2898							
			•		.2510		1311	1720		6216 6160	-1.0001	7673		- 1816							
	1.0460		598.16		.2040		1027	1323	1299		3494 4528 -	9594 -		-1.0935	1.0460	911	27.5				
	1.0180		8		.1770							3072		1	1.0180	2250	860%				
	აგგნ.		ø		. 1660		0680	0871		. 2099 . 2099	.6068	į		.5439	0666.				3331 2461		
PLE CP	.9600	2864	.89817	LE CP	.1580								7445		.9600	6470	1777	0223 0865 1322		88	. 2843
DEPENDENT VARIABLE CP	.9210	3859	MACH =	DEPENDENT VARIABLE	.1120		, 0556	. 000s	. 1355	. 2589	.2733			. 2651	.9210			. 0802 . 0035 - 0559		1128	
DEPENDE	.8790	1708	-3.873 MA	DEPENDEN	.0700			.0694		. 2219	₩502°		!	1961	.8790		5269				
	.8210	. 4299	Ħ		0940.				.2971	.3286	6162.			. 2 665	.8213			. 1838 . 2077	œ	. 1940 .	.3413
GF.	.7790	. 2626 . 2845	BETA (1)	Ę,	.0230		.2636	16017	.5181 27.57	. 5002	6614.			3441	.7790			0375 .0393 .1235	.2391	5375. 5678.	.2377 .2167
R FUSELA	.7293	£0ë0·		PUSELA	.0080		.659+		a na	3			í í	٠٥/٩٠	.7290	- 0051		3273	1104	. 6195	. 0299
1.12AB17E	.6520	.0099 .0065	# 4.02	11098115	.000		1.1995							•	.6520	.0543	. 03/25 27:50	. 16231.	- 22.	.0750 0000	7.053.7 0539
SECTION (1) CABITER FUSELAGE	X/LB	FH: 165.000 180.000	ALPHA (3)	SECTION (1) CRBITER FUSELAGE	837.X	i i	20.003 20.000	40.000 55.000	C 0			() () () () () () () () () () () () () (000		9778	: غرق :	اران ماران ماران		101.) () () () (

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PAGE	-	m H		0194.	. 0569	.0574		.0282	.0122	38 00.				ii IA3		. 670	. 0555	. 6-55	85.3. 85.3.
	65)	FN/L		.3780	.0075	. 0236	0283 0216 0145	.0447	.0453	.0387				RN/L		.3780	. 0023	6600.	0339
	(XEBB65)	= 1059.3		.3016	0551	0418	1476 1845 2678	~. 3699	2304	1637				1059.3		.3010	. 0651	0927	1383 - 1488 -
		<u>.</u>		.2510	1306	1913	6595 7176 6993	-1.0334	94.0	9418						.2510	1372	2154 .	7!85 7924 7782
		596.16		.2040	1010	13+9		5105 8789 •	9742	-1.0159	1.0460	. 1151		598.16		.20%0	1114	10 c	- 2624 - 2628 - 5283
	FUSELAGE	# 20		.1770					. 2428 . 2428	•	1.0160	.2380		= 598		.1770			
AMES 11-073-1	-140A/B/C/R ORB FUSELAGE	O		. 1660	0825	0873	0726 0584 1206	.5199	.6095	.5838	0666.		2567 2567	o		. 1660	0862	1003	1318 1289 .020
~	-140A/B/	.89817	BLE CP	.1580						1457.	.9609	0421 1551 0629 1141	1930 1866 1736	.89817	LE CP	.1580			
A - 04148	11-073(0A148)	MACH =	INT VARIABLE	.1120	0643	1410	. 1999 1999	. 2525		.2778	.9210	3761 3356 .0197 0595	2100 1830 2036 2025	MACH	IT VARIABLE	.1120	.0863	0 . 40	0062 .0094 .1328
ESSURE DATA	'n	. 183 P	DEPENDENT	.0700	.0212	.0321	. 0882 . 0958 . 1495	. 1843		.4016	.8790	2680 2616 0240 1250	3434 3434 2666 0978	.246 m	DEPENDENT	.070			62.00 64.00. 74.00.
D.	AME	" 5		.0460	.1123	133	203	.2781		2754	.8210	2023 1813 - 1002 - 0991 - 1026	.2060 .4066 .4893	J.		. 3463		3 CH 11 CH 1	100-00 00-00 0-00-00 0-00-00
TABULATED		BETA (2	AGE	. 0230	. 2223 . 2394	3917	.4137 .4137	. 3853		.3516	0677.	0595 0803 0803	. 1418 . 1907 . 2101 . 2185 . 2289	BETA (3)	AGE	.0230	. 2093 . 2057	18.30 19.20 19.20	27.5. 87.65. 1888.
		4.021 B	ER FUSELAGE	. 3683	.6721		.5401			.5679	.7290	. 0058 4134 3012	1031 . 0262	.023 BE	R FUSEL	0000.	ស្វិ		.3765
8 75 8 75		#	1 JORBITER	. 0000	1.2058					1.2058	.6523	.0565 .0444 2288 1663	1125 0503 0394	t.	1104011	. 0000	en an		
0ATE 10 FE		ALPHA (3)	SECTION	X/L9					168 168 168 169 169 169 169 169 169 169 169 169 169		X/LB	PHI .000 .000 .000 .000 .000 .000 .000 .0	186000000000000000000000000000000000000	ALFHA (3)	3.001.035	4 71.5	± 36	() ;	, (()

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.5740 . 1421 4970 .0062 .0046 10001 .0132 -.0107 -.1536 £970 € .1142 -.0337 <u></u> Z Z 3780 .0428 7+50. .0387 3780 -.0918 -.094 -.2321 5720. .0618 -. 1461 (XEBB65) 1038.8 .3010 -.1830 .3010 -.3256 -.2240 .00% 4.24. -.0188 - 4582 .2510 -1.0242 -.7820 -.9506 .2510 -.0780 -.4974 -.6033 -.6468 -.0633 -. 6139 -.6811 .2040 -.9865 -1.1078 -.0369 -.0421 -.0536 -.0534 -.1693 -.2552 -.3709 .2040 1.0460 598.61 AMES 11-07310A148) -140A/8/C/R OPB FUSELAGE .1770 . 0862 . 1536 . 3442 . 1928 1.0180 .1770 ¥725. -.0101 -.0111 .0206 .0435 .0352 .0511 . 1660 .4356 .5569 5580 9990 . 1660 -.3171 5859 O . 1580 . 6599 -.0401 -.1194 -.0950 -.1486 -.1887 -.2455 -.2194 -.2016 -.2811 .9600 . 1583 .89873 ဦ DEPENDENT VARIABLE CP DEPENDENT VARIABLE .1120 -.3742 -.3173 -.0352 -.1127 -.2824 -.2382 -.3541 -.4270 . 2099 .2647 .9210 .1123 .0276 .1008 .1524 .1585 .1585 .2051 PACI .0700 -.607a -.52.a -.4262 -.2233 0070. .1416 .8790 . 1908 164 1930 2293 1977 1859 . 1221 856 m . 2399 0460 . 1010 .3294 2409 .8210 4402 25.50 28.41 28.73 38.19 38.19 38.19 38.19 38.19 0460 .19:8 m -. 0230 .3316 7.0.1 7.0.1 7.0.0 6.0.0 .35+8 .0230 BETA BETA SECTION / INDRBITER FUSELAGE C 1109917EP FUSELAGE -,3787 -,8834 .0090 .5383 .0259 . 3083 .603-681117 + 300g .9013 6362 4.023 94B 6 ## C 4 79 ## C 70 ## (F ## ## \$ C 10 ## . 5503 1.1890 .6523 · cale 1.16-7 AT 1 STORT လောင္း ကလလလက္ကေလာင္း မေတာင္း ကလလလက္လည္ ကြယ္ဆန္း ကလလလည္း ကြယ္ဆန္း ကလလလည္း ကြယ္ဆန္း ကလလလည္း र्ष्टा १३ á 87.X

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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

			5740					3.5706		.5740	.150	. 1769						
			0.6970	1100.				•		0.4970	.1217	88 60.	01 93 01 69	0097	26 03.	31:3		
(22)			.3780	1074				RRVL		.3780	.0468	56+3.	0891	0234	. 0260	.0180		
(XEBBE2)			.3010	4426				1058.8		.3010	0124	0338	2058 2224 3268	4573	4384	3360		
			. 2510	6484				.		.2510	0610	1140	5911 6924 7089	6470	6586	6677		
			.2040	9469	1.0460	. 1311		598.61		.2040	0276	0508		5631 - 8336	-1.0326	-1.1282	1.0460	. 1330
FUSELAGE			.1770		1.0180	.377!		• 596		.1770				į	-2103	•	1.0183	.3814
OP.			. 1660	.5012	.9990	•	25. 25. 1.	ø		.1660	0095	0016	0322 0209 .1395	.5065	.5610	. 5362	0666.	
-140A/B/C/R		BLE CP	.1580		. 9600	0506 1838 0382 1052	1501 1775 1594 2709	.89873	RE CP	.1580					, ,	. 503.	3666.	0497
		DEPENDENT VARIABLE	.1120	6403.	.9210	3611 3362 .0431 0336	1674 1628 1348 1013	MACH	IT VARIABLE	.1120	2750	0719	.0908 .0908 .171	.1984		.715.	.9213	3592
MES 11-073(0A148)	3.856	DEPENDE	.0700	.1176	.8790	1980 2064 .0155 0395	2523 2843 2346 035	.183 m	DEPENDENT	.0700	. 1223	1410	.0989 .0955 .0963	7460.		.1053	.8790	1991
3ME			.0460	.1752	.8210	1281 1041 .1333 .1115	.1101 7515. 3855. 7518.			.0460	.2281	4848 9089	1992 1911 1859	. 1900		1991.	.8213	1659
	BETA (!	AGE	.0230	.2201	.7790	0008 0835 0035 0018	.1208 .1239 .1153 .1103	BETA (2)	1GE	. 0230	3725	1644	. 3829 . 3403	.2804		5445.	0677.	.0036 .0196
		110RBITER FUSELAGE	.0080	4304	. 7290		0795		ER FUSELAGE	.0080	1608.		.4935			.4160	.7290	.3983
	6			۲	0	n a w a	ታ ታሴወ	7.884	1) ORBITER	8	g,					gn.	Ġ	tir in
	7.875	(110RB1)	. 2000	1.154	.6520	1.131 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2974 1444 1222 1086	u	2	. 0000	1.1729					1.1729	653	33

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ANDS 11-073(OA148) -140A/B/C/P OFB FUSELAGE

						3.570B		574B	.1372	.1576							
								0794.	.1150	.0798	0374 0888	.0035	.0073	00			
								3.80	. 0455	.0203	0957 0839 0569		0275	.0263			
						- 1058.B		3010	0233	1116	1928 1874 3176	4221	3918	4013			
						a .		.2510	0603	1544	6626 7650 7743	6693	7053	7141			
		1.0460				598.61		2040	0394	0935	2099 3377 474;	6463	-1.0439	9686∵	1.0460	.1325	
		1.0180				\$ 20		.1770				0080			1.0180	.3854 .2205	
		ა666 .		3245 2510		σ		. 1660	- 0099	0338	0940 0871	.4215	.5222	. 5295	0666.		3213 2584
	VARIABLE CP	.9500	0784 1266 1776	2036	2656	.89873	BLE CP	. 1580						.6301	.9500	0510 1475 1062 1589	2528 2327 2140
	=																
	ENT VAR	.9210	0142 0939 1477	2386 2160 -	2210	# #CH	NT VARIABLE	.1120	.0123		.0241 .0241	.:680		.2056	.9210	3616 3235 0676 1465	3013 3023 3491
. 183	DEPENDENT VAR	0156. 0678.	06210142 14990939 25811477	43232386 37712160 30192249		. 244 MACH	DEPENDENT VARIA	.0706 .1120		'	2005 0026 0305	99		.1010	.8790 .9210	.3616 .3235 .0676 .1465	111
"	DEPENDENT VAR	. 921			1171	# 4.244 MACH		,	2202 .1105 1950 .0752	1638 .0385 . 173 .0389 -	0005 0026 0305	553 . : 69		•	•	2013 - 3616 2157 - 3235 1566 - 0676 2529 - 1465 4223 - 2035	M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 	4SE DEPENDENT	156. 0678. 015	05990621 04571499 04452581	1059 - 4323 3235 - 3771 4229 - 3019	1455 - 1171 1633 - 3956	(3) = 4.244 MACH	DEPENDENT	. 0070. 03+	181 - 2022 - 188 189 - 1895 - 685	.38	0956 .0005 0908 .0026 1204 .0305	566 .0653 .168		. 0101. 649	. 8790 .	.167220133616 .160321573235 .0258 - 15960676 .02572529 - 1465 .034042232035	
ก็ เ	FUSELAGE DEPENDENT	156. 0678. 0158. 0	.1520 .0599 .0621 .0551 .04571499 .0250 .04452581	0428 .10594323 1052 .32353771 1364 .42293019	1711 1455 - 1711. 18+0	882 BETA (3) = 4.244 MACH	FUSEL AGE DEPENDENT	. 330 . 0460 . 0700	181 - 2022 - 188 189 - 1895 - 685	.38	2750 .0866 .0005 2745 .0908 .0026 2631 .1204 .0305	35756665369		. 0101. 649:	. 8210 .8790	.0011127220133616 .0175105321573235 .1996225915960676 .1337029725291465 .0734024042232035	10000 100000 100000 100000 100000 100000 100000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 1000
BETA (2) *	4SE DEPENDENT	156. 0678. 0158. 0677.	.60291520 .05990621 .46230551 .04571499 .0250 .04452581	. 1977 2159 0428 . 1059 4323 1775 - 3235 3771 1757 1057 359 3719	1711 1455	(3) = 4.244 MACH	DEPENDENT	. 0230 . 0460 . 0700	2011. 5055. 1858. 8+9 3799. 1949.	.38	. 2750 . 0366 . 0005 5 . 2745 . 0908 . 0026 . 2631 . 1204 . 0305	35756665369		. 2371 1649 .1016 .	. 9910 .8210 .8790	.0922 .0011127220133616 .0175105321573235 .58571982026815960676 .42691337029725291465 0734024042232035	- 10308 - 10308 - 10303 - 1031

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##ES 11-073(0A148) BETA (3) * 4.244 USELAGE DEPENDENT VARIAN USELAGE DEPENDENT VARIAN USELAGE DEPENDENT VARIAN USELAGE 0.3463 BETA (1) = -3.854 MACH = 0.0510 .05240 .1120 USELAGE DEPENDENT VARIAN USELAGE DEPENDENT VA	7178 1414 - 0190 1795 5690 5690 6069 60799 5981 5690 569
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	3.5707		.5743	.2129								.5707		.5740	.2051	9602 .
	RNVL = 3		0.4970	. 1826	0856 0760	0405	*000 *	. 3094				m #		0.4970	Ę.	1310 0832 0682
865)	O.		.3780	.1063	1883 1947 2963	1931	1923	1938				FBV/L		.3780	.1076	. 2326 2326 2120 2319
(XEBBGS	- 1060.		.3010	.0526	- 2428 - 2428 - 4205	5181	5385	5297				1060.0		.3010	.0363	0853 3583 2158 3621
	۵		.2510	.0276	5278 6498 7344	5771	6271	6289						.2510	. 0200	1204 5977 7268 6856
	598.05		.2040	.0565	0890 1286 2182	4920	-1.0113	7522	1.0460	. 1403		598.05		.2040	.0397	0560 1546 1794 2846 4405
FUSEL #3E	# 59		.1770			- -	1832		1.0180	.4081		= 598		.1770		
ORB	o		. 1660	.0750	0238 0191 0040	.4878	.5163	486h.	0666.		-, 32/3 -, 2569	0		.1660	.0668	
-140A/B/C/R	.89780	BLE CP	.1580				0609		.9600	1064 2692 1301 1577	2388 2335 2156 2839	.89780	LE CP	.1580		
-073(0A14B)	MACH	NT VARIABLE	.1120	. 1243	. 0558 . 0728 . 0811	.1425		.1519	.9210	3317 3110 1283 1903 2340	3911 2780 2810 2687	MACH =	T VARIABLE	.1120	.0934	.0636 0310 .0128 .0279
	χ. Ce:.	DEPENDENT	.0700	. 2336 . 2119	. 1422 . 0825 . 0683 . 0220	.0159		.0312	.8790	1555 2006 2664 3232	4418 4052 3601 1366	.258 MA	DEPENDENT	.0700	.1763	. 1408 . 0254 0256 0230
AMIS			.0460	.3373	.1869 .1538 .1538	£460·		.0752	.8210	0551 0553 0559 0380	.0902 .5565 .3170 .3447	.		.03-50	Led ted	.2509 .1263 .0603 .0603
	BETA (2	AGE	.0230	.5048 .5153 .5251	.3708 .3708 .3302 .5420	. 1593		. 1207	. 7790		.00.1 .0750 .0750 .1087	TA (3)	સ	. 0230	.4913 .4522	. 5013 . 5015 . 51016 . 51016 . 51016
	520 B	ER FUSELAGE	.0090	.9324	.4207			4125	.7290	. 58883 68883	2732 1923 0953	38 L26	P FUSELA	01 01	1216.	. 2572
		: 10PBITER	.0000	1.1095				1.1095	.6520	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0)	110931 TEPO (1	0000	1.0932	
	Sp. 4 de la la la la la la la la la la la la la	SECTION (X/LB	I GG	99.000 170.000 170.000	; ci -:	வ்ம் கூட்	90.	אירפ	11 Je 1000	100000 00000 00000	At mus (S)	SECTION :	mx	្តាប់ពីព	

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(XE8865)

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The Martin of the Control of the Control of the Martin of the Control of the Cont

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-073(04148) -140A/B/C/P ORB FUSELAGE

BETA

11.907

5740 .4970 -.0086 ÷500. -.0159 .3780 -. 1883 -.2316 -.2267 .3010 -.5171 -.5337 -.5607 .2510 -.6108 -.6248 -.6075 .2040 -.6176 -.9872 -.7006 1.0460 -.9746 .1393 .1770 .0715 .4073 1.0180 . 1660 .3915 .4840 .4878 0666. -.3141 -.3014 -.2220 -.2693 -.2569 .1580 -.1027 -.1963 -.1660 -.2151 -.2267 .5856 .9600 DEPENDENT VARIABLE CP -.3390 -.3447 -.2213 -.3704 -.4635 .1120 .1456 .9210 . 1250 .0700 7710. -.1666 -.2173 -.3494 -.4144 -.5244 -.4381 -.3659 -.1727 .8790 -.0114 4.258 -.0620 -.0411 -.0872 -.1011 .0681 .0738 .8210 .0035 .2548 .3521 .0460 3 .0230 . 1029 - 1940 - 1029 - 1029 -.0033 .0409 .1087 .0998 .1153 .7790 . 1284 SECTION ! 1.0PBITER FUSELAGE .0280 -.7269 -.1355 -.0779 .7290 .1570 .2185 -.2557 -.1514-.1396-.1499 3030. .2084 .2091 -.4417 .6520 -.1989 1.0932 ALPHA (5) PH1 140.000 151.000 168.000 165.000 174.000 100.000 40.000 93.000 93.000 11.0.000 120.000 120.000 135.000 165.000 165.000 Ŧ A/LB

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

PARAMETRIC DATA	RUDDER = 5.000 SPDBRK = 55.000 BDFLAP = 16.300 L-ELVN = -4.000 R-ELVN = -4.000 MACH = .600	; = 2387.4 RN/L = 4.8005		6473. 0784. 0378. 010E. 013S.	12720974077106450848	301984171815251583	-13740091 .0615 .1038 -16110284 .0401 .0904	1637 .0097	3131104503150025	2383126105000234	2270131607210370						
	58.	591.26		.2040	1548	3335	1256	- 1465	3519	9330	-1.1600	1.0460	2000.				
		= 591		0.771.					ť	5555.	•	1.0180	.2131	1031			
		ø		.1660	1820	23715	1406	. 1886	.5650	.5702	.3748	0666.			3123		
		.59482	RE CP	.1580							. 6995	.9600	0707	1410 0566 1108	1396	334 0966	
	0,00 20,00	MACH .	DEPENDENT V. RIABLE	.1120	† !	2797	1304 .0790	32525.	3+78		4162.	.9210	1856	. 0644 - 0028 - 0510	0987	0187	. 0040
	6800 IN. 0000 IN.	.846 M	DEPENDE	.0700	2185	- 2842 - 2984	0129	.3+78	.3480		.2787	.8790	204B	7750 7750 7750 7750 7750 7750 7750 7750	1001	0599	(a) 1 .
	1076.(1-1		.0460	2237	2430	. 0507 2285 2011	. 4561 . 4561	4279		in Th	. A210	2479	1 2000 2000 2000 2000 2000 2000 2000 20	io.	3379	.3139
ſΑ	XMRP YMRP ZMRP	BETA (1)	AGE	. 0230	2176	1 953 . 0251	. 2079. 2074.	. 5.163 6010.	.5576		, t +62	.7790	1.1923	1037 1037 1037	.2605	ທີ່ ທີ່ ທີ່ ທີ່ ເກີດ ເປັດຕິດ ເປັດຕິດ	c/ 22.
PEFERENCE DATA	S0.FT. IN. IN.		CR FUSEL	.0080	. 1326		ţ	7.55			ercr.	.7290	1525	.01 85 .0707	0383	. 1002	1240.
43430	269°.3900 474.3390 936.680	1 = -4.037	SECTION (110PBITER FUSELAGE	. 0000	1.0079						1.0070	.652c	13:2	######################################	1+80.	80 t 67 t 63 t	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	SPEF = SCALE = SCALE	ALPHA (1)	SECTION (X/LB	PH1 .000	20.000 40.000	98.500 10.000	30.00 13.0.00 1	140,899		100.000	X/LB		79.08 79.08 79.08 79.08			

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500		C008. *	E L	2	0758	1:39									¥.8005			0699	0882	
PAGE	,	<i>*</i>		2 7 7	.0515	. 1105	.0780 .0648 .0378	.0181	.0149		.0006				•		2	克西.	0753	.05% .0431 .0171
		1		.3780	. 1290.	1183 -	.0297 .0106 .0075	0187	0281		0338				HRV1.		.3780	0557	0765	.0053 0116 0371
	(XE8866)	2387.4		.3010	- 10844	1374	0410 0806 2043	. +680	-, 1035		- 0660				- 2387.4	,	.3010	0808	0903	0712 1049 2430
				8185	1137	2019	1811 2152 2341	e757	2085		2030				۵		8 5 5 5	1100	1565	2176 2646 2854
				.2040	1367	1719	2036 1899 2412	2695	9281		-1.1458	1.0460	.0077		591.26		.2040	1317	1536 2157	. 3598 - 3598 - 3480
_	FUSELAGE	= 591.26		0771.					. 1552		•	1.0180	. 1246		*		.1770			
AME'S 11-073-1	ORB B	ø		.1660	-, 1629	2026 3015	1796 1120 1051	.5028		.5585	9494.	.9990	10		ď		.1660	1589	1773	2050 1773 1954 0537
	-140A/R/C/R	.59482	LE CP	. 1581							90.	.9600	0746 1446 0694 1270	183! 167£ 1277 261	.59486	as and	.1580	•		
- 04148 (34148)	• 5	T VARIABLE	.1120		2395	1510 .0044 .0378	3241			.3179	.9210	1907 1820 .0315 0436	1569 0908 0778 0708	MACH =	NT VARIABLE	.1120			1775 0699 0616 1375
SSURE DATA	11-073(.843 MACH	DEPENDENT	.0700	1			. 423.			.3065	.8790	2090 2412 .0518 0182	1902 1376 0970 .0821	£ +61.	DEPENDENT	.0700			1137 0366 .0092 .1447
O.	₹	, M		.0460			0007 0007 2146				.378±	.8210	2462 2512 1638 1920 2511	.3850 .4515 .4159	. 4285 3) =		. 0460			
TAR! NATED		TA (2)	띯	.0230			. 4305 . 4305 . 4305		?		0 # 7 # .	.7790	1881 1998 .0651 .1166	. 3018 .3018 .255 .255 .255 .255	.2430 BETA (3	AGE	.0230	į	1637	.1182 .2214 .3033
		39 BETA	R FUSELAGE	.0080		.1706	.6042				.7211	.7290	1477 0109 .0348	.0906	1060	FUSE	.0090		. 1803	8844.
	ę	-3.899	1)ORBITER	0000		1.0482					1.0482	.6520	1191 1929 .0018	3440. 7720. 0130.	•	200	0000		1.057	
	DATE TO PER	ALPHA (1)	8		Ē		55.000 70.000 90.000	120.000	150.030	165.000	174.000	X/LB	PH1 	135.000 135.000 155.000	180.000	. §	X/LB	ž	20.000 20.000	40.000 55.000 70.000 90.000

AMES 11-073(OA148) -140A/1/C/R ORB FUSELAGE
-140A/! /
(84140) F
ACC 11-07
*

	.5740								4.8005	0925		0738	0629			
	.4970		9120.	.0218	3610.				•	604		Q.73	05t2	0.427 0.327 1.0269	0109	0014
	4780		0276	0233	0209				FBV/L		.3/80	0599	0492	0098 0219 0801	0540	0435
	2002		- 0760	- 9560	0863				* 2387.4		2006.	0857	0699	0868 1235 2932	1172	¥21
	Š		. 2481	1980	1869				•	,	50 50 50 50 50 50 50 50 50 50 50 50 50	1161	1283	- 2464 - 2974 - 3401	2464	2078
		0. 0. 0.	3527	9309	-1.1300	1.0460	0495 0492		591.26		. 2040	1420	1457	- 2428 - 2924 - 4377 - 4532	. 5491 . 5491	. 9 1 98
		.1770		0+60		1.0180	. 1206		291		.1770				10+0	025t
		.1660	.4102	9	.510#	0666.	.3285	2667	ø		. 1660	1623	1666	2299 2318 2804 1959	. 2869	.4562
	e G	. 1581			.674	.9600	173(1276 0928 1451	2456 2106 1714 2743	. 5948ĉ	ALE CP	. 1580					.610
	VAR I ABL	.1120	.2756		.3310	.9210	1941 1832 0036 0805 1444	2302 1568 1471 1525	MACH #	IT VARIABLE	.1120		2043	1972 1407 1461	.2012	
±61.	DEPENDENT VARIABLE	.0700	.2817		.3206	.8790	2594 2418 .0060 0728	2906 2253 1504 0144	AM 175.	DEPENDENT	.0700	1 85	2274 2274	- 1591 - 1269 - 1027	.2131	
		.0460	.3664		.3962	.8210	2451 2443 154 .1216		# #GB#. s		.0460	1042	- 1831		3085	
A (3)	ų.	. 0230	.4780		.4508	.7790	1864 1947 . 0271 . 0765	.1753 .2542 .7673 .2825	.2675 BETA (4)	GE	.0230	Ş	1830 1830		¥504.	
4 BETA	FUSELAGE	.0080			7157.	.7290	1463 0359	.1185	1259	1) ORBITER FUSELAGE	.0380	į	<u> </u>	.2782		
-3.89	1) ORBITER	0000			.0578	.6520	1159 1656 0147	.0557 .0577	.0497	1.3 ORBITE	0000.		1.0362			
A.PHA (1)		X/LB	PHI 140.000	151.000 162.000	169.000 174.000 180.000	X/LB	PH1 . 000 . 40. 000 . 70. 000 . 90. 000	110.000 126.000 135.000 150.000	5	20	X/LB	Ē	20.603	40.000 55.000 70.000 90.000	120 .000 140 .000	151.000 162.000 165.000 169.000

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AMES 11-073-1	
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TABULATED PRESSURE DATA - 04148	
TABULATED F	
E 10 FEB 76	

DATE 10 FE	EB 76		TABULATED	TED PRESSURE	SURE DATA	A - 0A148	_	AMES 11-073-1	^					PAGE	262
				AME	AMES 11-073(0A148)		-140A/B/C/R ORB FUSELAGE	YR ORB F	USELAGE			(XE8866)	(99)		
ALPHA (1)	1	3.902 86	BETA (4)	# 6	4.271										
SECTION (110881169	EP FUSELAGE	1GE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.0000	.0090	.0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3780	.¥97€	.5740
PH1 180.000	1.0362	9589.	.4321	.3818	.3104	.3176		.4876		-1.1244	1973	1001	0338	.0038	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 - 000 - 40 - 000 - 40 - 000 - 90 - 000 - 000 - 000	1.1526 1.1527 1.03466 1.0008	1508 0619 020+	1865 1805 0106 .0318	2465 2371 .0765 .0664	2137 2462 0266 1108	1950 1857 0243 1113	0725 1052 0997 1566	7	. 1243	.0593					
135.000 135.000 150.000 165.000	0050 .0300 .0328 .0358	.0043 .070	.0879 .1856 .2135 .2173	.1095 .3260 .4752	4090 - 3254 2645 1219	3113 2240 2311 2366	3029 2451 2129 2677	.2805							
ALPHA (1)	n	3.917 95	BETA (5)		8.333 M	#.CH	. 59482	ø	. 591	591.26	۵.	- 2387.4	RN/L	•	4.8005
SECTION (1 JORBITER	ER FUSELAGE	JOE		DEPENDENT	NT VARIABLE	BLE CP								
x/LB	. 0000	. 0090	. 0230	09+0.	.0700	.1120	.1580	. 1660	.1770	.20 +0	.2510	.3010	.3780	0764.	.5740
PH1 .000	.987 .	.1312	2030	ውን	2340	7.80%		1827		1599	1341	0993	0730	0695	0908
40.000			1265		2310	1931		- 1896		1745	1176	0583	0391	0443	0398
70.000 70.000 180.000		.0981	+100 00059 0469. 1597.	- 1541 - 1466 - 0068	1880 2096 1123	1896 2259 1035		2748 3412 3365			2567 3241 3950	0975 1366 3495	0178 0341 1262	.0333	
150.000 150.000			. 2913	.2198	.1152	.1055		.1459	2575	5178	2703	1483	1039	0647	
169.000 165.000 169.000								.3737	1687	9902	2376	1511	+060	0505	
174.303	4CBB.	.5222	.4316	. 3246	.2618	.2714	0+4G.	.3922	•	-1.1452	2355	1333	8770. -	O448	
¥//E	.5523	.7290	.7793	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PH1 C00, C00, C4		1545	1958	245	2400 2400	1907	0730		.2167 .1042	0093	•				

8.333

BETA (5) =

-3.917

(1 · #HE-F

BE GREET STATE

(XE8B66)

			4.8075		.5740	0373	0625							
			đ		0.4970	0299	0703	.0531 .0383 0457	0570	-, 0606	0660			
			FRNZ		.3780	0529	0783	.0267 .0086 0674	0783	0881	0959			
			= 2386.4		.3010	0789	0978	0237 0567 2230	1551	1672	1636			
			 C		.2510	1040	1525	1315 1635 2310	4021	+.862·-	2683			
	1.0460		592.43		.2040	1245 - 1803	2105		-,4608	-1.1126	-1.3467	1.0460	0007	
	1.0180		3		.1770				.1817	.1720		1.0180	. 1295 . 1295	
	J666.	2914 2937	o		. 1660	1411	2288	.0028 .0028 .0188	.5115	.5105	. 2960	. 9990		-, 51 l <i>e</i> -, 2339
BLE CP	.9600	1065 1628 2150 3473 3052 2758	.59550	BLE CP	. 1580					6 6	9609	.9600	0680 1297 0462 1099	1385 1531 1221
DEPENDENT VARIABLE	.9210	0455 1326 1956 3932 3180 3465	MACH =	INT VARIABLE	.1120	i S	1641	. 1251 . 1551 . 1555 . 1555	.2623		.2098	.9210	1847 1640 0089 0089	1066 0770 0551
EPENDE	90													
ä	.8790	0552 1521 2815 2815 5305 4630 4136		DEPENDENT	.0700	~.1403	1.1360	2359 2359 2938	.2451		.1784	6793	1913 2124 .0249 .0463 0331	1313 1244 1309
Ö	.8210 .87	.03950592 .01851521 .04142815 09135305 .15594630 .43734136	7.895	DEPENDE	.0460 .0700	.1163		24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 25.00 26.00	12+2. 17:5.		.24.1 .1784	.8210 .8790	21111913 21492124 .2074 .0949 .2446 .0463	.50581313 .44251244 .25931309
	510	.0395 .0185 .0414 .0913 .1559 .4373	(1) = -7.895		23	1163	5060 - 6000 0000 - 6000		E.			ပ	2014 2014 3654 3654	
	.8210	.0471 .0395 .0259 .0185 .0129 .0414 .00090913 .0825 .1559 .1138 .4373 .1348 .3674	BETA (1) = -7.886		. 0460	.07091163	5060 - 6000 0000 - 6000	- ជា - ជា ភូមិ ភូមិ ភូមិ ភូមិ - ភូមិ ភូមិ - ភូមិ ភូមិ - ភូមិ ភូមិ - ភូមិ ភូមិ - ភូមិ ភូមិ - ភូមិ ភូមិ - ភូមិ ភូមិ - ភូមិ - ភូម - ភូមិ - ភូម - ភូមិ - ភូម - ភូមិ - ភូម - ភូមិ - ភ	4487 .3171		. 24. 1	.8210	.15232111 .15202149 .3631 .2074 .1145 .2446	.5058 .4425 .2593
C 110PBITER FUSELAGE DI	0158. 0677.	.05950471 .0595 .05950259 .0185 .01290913 .082500190913 .0825 .1559 .0013 .1138 .4373 .1348 .3674	(1) = -7.895	CTION (1) CABITER FUSELAGE DEPENDE	. 0230 . 0460	207091163	5060 - 6000 0000 - 6000	19.500 19.5000 19.500 19.500 19.500 19.500 19.500 19.500 19.500 19.500 19.5000 19.500 19.500 19.500 19.500 19.500 19.500 19.500 19.500 19.5000 19.500 19.500 19.500 19.500 19.500 19.500 19.500 19.500 19.5000 19.500 19.500 19.500 19.500 19.500 19.500 19.500 19.500 19.5000 19.5	4487 .3171		.3230 .24.1	.7790 . 0210	.0005	. 2079 . 5058 . 2489 . 4425 . 2370 . 5593

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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(XE8866)

(AMES 11-073-1)
- 0A148
ABULATED PRESSURE DATA
TABULATE
DATE 10 FEB 75

FUSELAGE
ORB
-140A/B/C/R
11-073(0A148)

				*.8075		.5740	0196	0307																								
						4970	0110	0409	.0321	0190	0191	0191	0236																			
				RN/L		.3780	0359	0407	0032	0110	0528	0542	- 0532																			
				2386.4		.3010	0567	0611		0893	1289	. 1291	1265																			
				•		.2510	0915	. 1183		2110 2572	3436 -	2563 -	. 0040																			
		1.0460		43 P		.2040		- 171		2382	-	. 0862	- 6115		.0102																	
		1.0180 1		= 592.43		.1770	•	• •	1 1	1 1		.1174	ī	1.0180 1	.1489 -																	
		1 3886.		ø		.1660	1232	1465	.0931 .0705	0665 .0866	.4508		.5012																			
	DEPENDENT VARIABLE CP	.9630	5952	59550	E CP	.1580	·		• •	•			.6374	.9600	0642 1436 0669 1336	1769 1807 1469 2627																
		.9210	- 99:0:-		VARIABL	.1120	į	1545 134 .	0238 .0531	.0756 .2157	.2498		מו	9210	1816 - 1643 - .0367 - 0465 -	1557 - 1167 - 1018 -																
98		.8793	· 51+1.	52 MACH	DEPENDENT VARIABLE	DEPENDENT	.0700				.1398	.2319		2153		1877 - 2215 - .04900159 -	1991 1772 1521 1572															
= -7.885	Ö	.8210	2644 -3.8					-3.86														.0460	983	1367		.3159	3112		0000	210	- 2134 - 2152 - 1547 - 1818 - 2645	.3875 .3998 - .3192 -
3	LJ.	.7790	. 1655 . 1508	<u>S</u>	<u> </u>	FUSELAGE	ليا	ليا	Ή	닖	႘	ig.	냸	Æ	냸	냂	پړ	SE SE	GE	GE GE		.0230	.0311	0074 .1693 (. 4343 . 4655	.4296		76.Eu		1391 - 1434 - .0250 .0770	.2617 .2677 .2618 .22:47
6 BETA	FUSELAGE	.7290	2610.				. 0080	.3583 -	•		. 5986			5077	.7290	. 0952 - . 0897 . 0293	.0359 .0829 .0725															
. 066	: YCPBITER	.6520	57.9	075	3 OPBITER	.0000	.0734						17.50	.6520	0540 - 1021 1016 -	. 6318 . 6317 . 6317 . 6507 . 6508																
ALPHA (2) =	SECTION ()	X/L6	189.00 189.00	ALPHA (2) =	SECTION (1:ORBITER FUSELAGE	X/LB	1 000.	20.030 40.030	55.000 70.000	90.000 120.000	140.000 150.000	151.000 162.300 165.030	169.000	x/LB		1.00.000 1.00.000 1.00.000 1.00.000 1.00.000																

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			0794.	0124 0240 .0095 0061	-,0096	0077					0/64.	0188 0254 0023 0528
- CO	# RN/L		.3780	0257 0240 0323 0470	0425	0416			RN/L		.3780	0373 0228 0371 0438
וארפמסם	- 2386.4		.3010	0541 0437 0867 1128	1221	1133			2386.4		.3010	0606 0452 1074 1303 2580
	۵.		.2510	0849 0976 2854 3034	3086	2255			a .		0. 0. 0.	0910 0962 2514 26883
	592.43		. 2040	1037 1472 1775 2231 3250	4021 5564 -1.0726	-1.2866	1.0460	. 0471	592.43		.2040	1151 1203 1469 2078 2689 3973
このなにように	. 59		.1770		.0097	•	1.0163	. 1381 1381	* 592		07.11.	
ם כ	o		. 1660	1196 1312 1533 1559 1485	.3703	4744.	0666	3155 86 86	o		. 1660	1255 1320 1451 1865 1960 2295
L/3/0/40+1-	. 59550	OLE CP	.1580			.6247	.9600	0620 1218 0891 1934 2557 2630	.59550	LE CP	. 1580	
(B) (C) (C)	MACH .	T VARIABLE	.1120	- 1459 - 1254 - 0681 - 0681 - 0744 - 1344	-2162	.2540	.9210	- 1810 - 1647 - 0040 - 1363 - 1363 - 1363 - 1710 - 1717	MACH	T VARIABLE	.1120	1506 1303 1265 0972 1034
0.00	.175 M	DEPENDENT	.0700	1191 1132 0180 .0116 .0323	5761.	.2252	.8790	. 1892 . 2221 . 0000 . 0000 . 1713 . 1713 . 2437 . 6533	250 MA	מייים מייים	.0700	1314 1456 1788 1788 1788 1788 1788 1788 1788 178
į	8		.0460	0750 0714 0493 .0844 .0833	. 2850	. 2965	.8210	2.2089 2.2080 2.1054 1.11.123 1.11.123 1.11.123 2.563 2.563 2.563	÷ #		. 3460	0853 0836 0369 0369 0214 0562
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	ial											
	076 BETA	TR FUSELAGE	.0383	.3661		÷169.	.7290	7.0977 11.00 05.47 080. 080.	73 BET	R FUSELAGE	. 0080	.3+09
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	(998			.3780	0586	0600	0598					3780		0483	0329	0452 0426 0729	0985	0987
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				<u>8</u>	2930	2481	2359				Q .	9		1032	1174	2643 3001 3729	2999	2695
				.2040	4820 6210	-1.0784	-1.2850	1.0460	.0557		592.43	2		1294	1574	. 5227 5227	5512 68 ⁺ 7	-1.1033
_	FUSELAGE			.1770	1401	_		1.0180	.2380 .1205		8	022	:				į	. 2393 - 2393
11-073-1	8			. 1660	.2620	9404.	.4195	.9390		- 2695	0	1550		1412	1552	2.2433 2.2930 2.2930	.1183	. 3231
B (AMES	-140A/B/C/R		BLE CP	.1580			.5618	.9600	0566 0976 1080 1605 2159	2737 2514 2251 2643	. 59550	BLE CP	000					. 4983
4 - 0A148	11-073(04148)		DEPENDENT VARIABLE	.1120	.1528		!!*S	.9210	1783 1729 0375 1209	2954 2377 2654	MACH =		0 1 1 .		, ,	- 1535 - 1783 - 1783		
SURE DATA	5 11-073	4.250	DEPENDE	.0700	. 1459		.2127	.8790	1861 2182 0469 1232 2538	3858 3439 2995 1706	8.308 M	DEPENDENT	00/0	1528	1663	- 1511	.0557	
TABULATED PRESSURE	AMES	# #		.0460	.2315		.2654	.8210	*015. - 1986 - 1986 - 0508 - 0508	.1189 .3783 .3980		ć	. 0450			- 1133 - 1111 - 1023 - 0136	. 1433	
TABULA		BETA (4:	4GE	.0230	3149		.3640	.7790	1501 1377 0536 0036	.0798 .1369 .1969 .940	BETA (5)	AGE	. 1230	05 84	0762	6886. 6886. 6886. 6886.	-2114	
		.073 BE	TR FUSELAGE	.0000			. 5632	.7290	1398 1398	0209	. 069 B	FUSEL	9830 .	.3093		.033G		
5.			:) ORBITER	. 0000			1.0583	.6520	0645 0705 1334	0389 .0015 .0034	<u>.</u>	1: ORB: TER	0000	1.0070				
DATE 10 FEB		ALPHA (2:	SECTION:	x/LB	140.000 100.000 0000	187.030 185.030	174.000 180.000	X7FB	74. 40.00.00.00.00.00.00.00.00.00.00.00.00.0	185.000 185.000 185.000 185.000 185.000	ALPHA (2)	SECTION (x/LB	PH1 .033	000	ເທີ່ວິດເ	រីជីធី	

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	;	07.S.					4.8049		575	9+10.	. C23.						
		.4970	0714				•		. 497 0	.0130	.0016	.0013 0058 1630	0_0:	0932	0856		
		.3780	0968				PRA/L		.3780	6,20	0020	0116	1296	1191	1053		
		3010	1629				2366.7		.3010	0470	0099	0504	2088	1973	1795		
		50.	2721				•		525.0	0719	0571	1437	4865	3461	2976		
		.2040	-1.2997	1.0460	0038		.38		.2040	0823	7.00		5475 5658	-1.2790	-1.5062	1.0460	.019 4010
		.1770	•	1.0180	. 2463 . 1127		• 591		.1770					850 800 800 903	·	1.0180	.2715 .1555
		. 1660	.3205	0666.	- 4117	- 2880	ø		. 1660	0905	1053	. 0242 . 0346 . 0346	1694	£53	.2385	0666.	
	ור כם	. 1580		.9600	0743 0895 1112 1878	3257 3061 2654 2653	£8469.	RE CP	. 1590						.6088	.9600	0584
	IT VARIABLE	.1120	. 1948	.9210	- 1853 - 1841 - 0569 - 1559	3756 3242 3563 3595	MACH	UT VARIABLE	.1120	ı	-, 1124 -, 0314	1086	. 1867		.1377	.9210	1650
.308	DEPENDENT	· · · ·	. 1642	.8790	1930 2274 0805 1699 2976	1.4749 1.4749 1.4555 1.111	868	DEPENDENT	.0070	0524	0596 .0163	- 60.00 - 60.0	. 1452		5760.	.8790	1598 1935
œ *		.0460	.2235	.8210	2156 1969 .0172 .0355	0952 .137 .3761	r.		346	3062	. 02255 . 1043	3198	9155.		. 1428	.6210	1691
TA (5)	ų	.0230	.3159	.7790	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	.0073 .0793 .1010 .1109	4	W.	.0230		二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二	00 ± 00 00 ± 00 00 ± 00 00 00 00 00 00 0	.3738		.1982	0611.	-, 19 51 -, 09 87
138 690	R FUSELA	.0080	. +887	.7290	6982 1629 1052	0539 0039	(1)	PUSELAG	0600	4976		.7061			1324.	.7290	±.0+65
5	1 10RB1 TE	0000.	1.0070	.6520	- 0693 - 06:4 - 1379 - 0934	ត្ត ក្នុក្ស គ្នា ភូមិក្រុ គ្នា ភូមិក្រុ	ر. ري	31:8531:	coup	1.0272					1.6272	5553.	6374 C281
15 1 And 1	SECTION (110RBITER FUSELAGE	אירם	PH1 180.000	X/LB	######################################			- AUTHUES	8778	<u>.</u>	(6) (3) (3) (3) (4) (3) (4) (4)	45 45 60 60 60 60 60 60 60 60 60 60 60 60 60		then in		di .! ×	039 . 04 40 . 003

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DATE :0 FEB	9 76		TABULATED	ር የ	ESSURE DATA	A - 0A149	-	AMES 11-073-1	•					PASE 10	1003
				AMES		11-073(04148)	-140A/B/C/R	OAB	FUSELAGE			(XEBB26)	(2)		
ALPHA (3)	. •	.021 BE	BETA (1)	n	-7.899										
SECTION (11CABITER	ER FUSELAGE	1SE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	.6520	. 7290	0677.	.8210	.8790	.3210	.9600	0666.	1.0180	1.0460					
9HI 70.000 90.000 105.000	1971 1228	1199	.0222 .0795 .1150	.2034 .2507 .3897	.1039 .0543 0187	. 0530 6006 0507	0358 1149 1562	Q C F							
186.000 186.000 186.000 186.000	1801 09+9 0810	0631	1919 1935 1565 1751	.5391 .3793 .1355	1596 1733 1992	1210 1107 0883 0337	1421 1799 1380 2611	2457							
ALPHA (3)		.024 BE	BETA (2)	#	-3.864 H	MACH .	.59494	o	. 591	.36	•	2386.7	RN/L		6:08.4
SECTION 1	110RB1TER	ER FUSELAGE	POE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	.0000	. 0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	<u>8</u>	.3010	.3780	0.75¥.	57.50 57.50
1HG	1.0616	.5308	. 1139	.0220	0305			0750		0676	0553	0256	6000.	.0271	.0243
20.330 ₹0.630			.3072	.0927 7580.	0458			0810 0762		0862	0438	0058	.0137	1710.	.0443
55.000 73.000 90.000 120.000		.5656	.3928 .4093 .4178 .3884	.2062 .2171 .2371 .745.	. 1853 1.1853 1.1855 1.1800	.0399 .0739 .0842		0465 0465 0446 0694		1686 1486 2276 2933	1913 2198 3053	0870 1155 2772	0422 0527 1215	0167 0291 1039	
153.030			.3081	.2047	.1377	.1727		.4178		6004	4147	- 1691	0817	0633	
181.00 183.48 183.00 183.00 183.00								414	. 0380	-1.2423	2973	1627	- 8080	0500	
0000 1 + 000 1 + 000 1 + 000 1 + 000	1.0616	4416	4185.	. 1821	.135	. 1656	. 5896	.3264	•	-1.4510	2700	- 1462	0270	0445	
x/ca	.6523	.7290	0677.	.8210	.8793	.9210	.9600	. 9990	1.0180	1.0460					
# # # # # # # # # # # # # # # # # # #	1.0107 1.0107 1.8189	1633	8689.1 8889.1 8830.1 7539.	101. 1573: 1823 1883	1617 	- 1655 - 1462 - 0430 - 0431	0532 1291 0579 1337		.2622 .1687	.0323					
	*. 1234 0-05	029. 0393	1788 1788 1785	ະທານ	2143 2165 2075			3149 2463							

DATE OF FEB 76

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(XEBBEB)	
AMES 11-073(OA148) -140A/S/C/R ORB FUSELAGE	<i>‡</i> 5
1 54	-3.854
	SETA (2) #
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			4.80±9		STAD	.0337	8450.								
			•		0764.	.0342	.0218	0320	053C	egen	325£	0339			
			RN/L		.3780	.0085	.0139	0627		2632	. 6538	0513			
			2386.7		.3010	0251	6064	68		. 1841	- 1386	- 1287			
			.		.830	0447	0515	2313		3512	2690	2550			
	1.0+50		591.36		.2040	0628	0931			45:6 6352	-1.2071	.4120	1.0460	. 0403	
	1.0:80		= 591		.1770					0476		7	1.0183	.1503	
	066 6 .		ø		. 1660	0711	. 070. 200. 300. 300. 300.	1137	0279	. 3268	5704.	.3770	.9990	3070 2409	
BLE CP	.9500	2555	.59494	RE CP	. 1580						9	5/ gc .	.9600	0558 1076 1458 1971 2019	1923 2457
DEPENDENT VARIABLE	.9210	1207	MACH =	DEPENDENT VARIABLE	.1120	, C. C. C. C. C. C. C. C. C. C. C. C. C.	2.04.0		1100	.1500		. 1802	.9216	1599 1517 .0005 0843 1416	1853
DEPENDE	.8790	6110.	.185 m	DEPENDE	.0700	0289	0115	1010.	. C809.	. 1111		1294	.8790		2303 0898
	.8210	2949			. 0460	7120.	. 0614 100.	1911	1705	9191.		.1703	.8210	2000 200	35.30 3982
ម្ព	.7799	. 1974 . 1849	BETA (3)	JOE 10E	. 0230	11.85	40EG.	7885.	3102	1+62.		CB+8.	CB177.	1.1.0 0.00 0.00 0.00 0.00 0.00 0.00 0.0	.2055 . 1830 . 1883
FUSEL	7290	ე+8 9		FUSELJ	. 0083	1925 1925		1	; ;			#1 77	7290	.0357 .11970 .1138	.055 8
O.	.7.	G	22	œ	-									1 1 1	
1:09PITER FUSELAGE	.6520 .78	03:00	= 4.022	SECTION (1) OPBITER FUSELAGE	0000.	1.0635						5665	. 5520	# # # # # # # # # # # # # # # # # # #	917.0

1005		. 8049		3750	.023	. 05F3								4.6049		d.	. 2092	9	
PAGE 1		*		. 49 70	.027 .	.0361	0473 0397 037	0351	0322	0446				•		े. जिल्हें जिल्हें	.015	0166	038- 033: 038-
	(99)	FOV.		.3780	.0010	0026	0791 0653 0613	0539	0641	0713				TARY I		.3780	6151	0370	0841 0561 0501
	(XEBBEB)	2386.7		3010	0287	0299	1347 1506 2500	1426	1383	1414				2386.7		.3010	0435	0584	1510 1477 2483
		•		0183.	0533	0855	2586 2831 3433	3235	2713	2673				<u> </u>		.2510	0751	1350	2923 2937 3591
		æ.		.2040	0700	0863	2572 3530 3530	5871	-1.2050	-1.4136	1.0460	.0115 0518		.36		.2040	0850	2,5	3028 3028 4161 5148
_	OPB FUSELAGE	196		0771.					1538	•	1.0180	. 1359		. 591		.1770			
11-073-1		o		. 1660	0753	0856 0991		.2297	. 3482	.3536	. 9990		. 2580	0		. 1663	0896	- 1287	2183 2533 2407
I AMES	-140A/B/C/R	.59494	ורב כם	.1580						7805.	.9600	0506 0843 1078 1675	2589 2538 2245 2639	.59492	RE CP	. 1590			
- 0A148	-073(0A148) -	MACH #	IT VARIABLE	.1120		0858 0705	0805 0675 0734	.1022		.1650	و. ب	1615 1615 0396 1217	2761 2445 2598 2772	MACH .	IT VARIABL	.1120	•	7.1077	- 1489 - 1296 - 1448 - 0597
NAE DATA	=	. 244 MA	DEPCNOENT	.0700	0392	0516 0485	0359 0537 0421 0024	.0678		.1139	.8790	1595 2146 0510 1369	.3589 3589 3314 1965	8.29+ M	DEPENDENT	0070.	9250	1022	1.1308 1.1308 1.0008 1.0008
ED PRESSURE	AMTS	j H		09+0.	.0243	.0159 .0186	.0205 .0117 .0186 .0823	3441.		1691	.8210	1704 1588 .0447 .0291	3079 3079 3775.	•		.0460	- 0	30	
TABULATED		BETA (4)	36	.0230	.1032	. 1037 1486	. 1653 . 1667 . 1820 . 2115	. 2248		٠. وگير	.7790	0950 0815 0859 0194	.0706 .1481 .1736 .1736	BETA (5)	136	. 0230	2580.	. 0593 6833	# 10 M #
		ın	R FUSELAGE	. 5363	.5073		. 2485			1014.	.7290	0353 2073 1347	0456 .0325	.031 85	IR FUSELAGE	. 6083	1,10		2693
75		* 4.02	1 Y ORBITER	. 0550	1.0485					1.0485	.6520	.0037 .0058 2399	7470 7750 7553	3	110PB1TER	. 0000	. 9993		
DATE 10 FEB		ALPHA (3)	SECTION	ğ1/X	FHI COD		Rine Big		151.000 162.000 165.000		X/LB	ដ្ឋ ទ្វិស្តីស្លា	185.000 185.000 185.000 165.000	4, Pith (3)	SECTION (87:KB		5 5	

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TABULATED FRESSURE DATA - 0A148 (AMES 11-073-1)

ANTS 11-073(0A148) -140A/B/C/R ORB FUSELAGE	
11-073(04148) -140A/B/C/R (FUSELAGE
11-073(0A148) -140A/B/	ORB
11-073(0A)	A/B/
4×75 11-1	X 0 A 1
	1-11 S.X

8.294

BETA (5) =

4.031

ALFHA (3) =

DATE 10 FFB 76

	.5740					4.7971		.5740	.0776	. 1166			
	£970	0596	0906			•		0.4970	.0669	. 0829	0369 0665 3082	1522	1167
	.3789	0846	117			RAYL		.3780	. 0268	.0803	0436 0735 2978	1623	2
	.3010	1608	1845			2387.2		.3010	.0001	. 0606	0752 1161 4034	2462	2165
	.2513	3204	2986			•		.2510	0248	. 0283	1531 1865 2448	5+60	3723
	. 2040	5862 7366 -1.2038	-1.4268	1.0460	0477	590.08		.2040	0333	0048		4055 6568	-1.4227
	.1770	3156 2885	·	1.0180	.1337	290		.1770				ţ	080
	. 1660	. 0930	.2593	0666.	2894 2517	o		. 1660	0318	0616	.0373 .0347 .1035	.,188	.3972
	_												
RE CP	. 1530		06hh.	.960ა	0570 0809 1181 1815 2554 2880 2965 2890	. 59424	LE CP	.1580					.5610
	.1120 .1590	7420.	.1215	.9210 .9600	17000570 16430809 06831181 15451815 21192254 34122880 32242965 37942965	tı	VARIABLE	.1120 .1580	6131	. 1566	.1535 .1430	.0987	.5610
DEPENDENT VARIABLE OF	•	0022 . 0247		•		۲. چ			,		.2363 .1630 .2244 .1535 .1188 .1430	.0459 .0987	.5610
	. 1120	2200	.1215	. 9210 . 9210	.16091700 .21351643 .09270663 .17761545 .28312119 .46033412 .4692324 .47773794	# HO. H R88. (- #	VARIABLE	.1120	.0383	. 1506			.5610
DEPENDENT VARIABLE	. 0700 .1120 .	0022	.0758 .1215	. 0150. 0210	.173416091700 .155921351643 .009109270663 .017217761545 .016546093412 .15534692324 .290047773794 .2353		DEPENDENT VARIABLE	.0700	. 1017 . 0383	3475 . 1506 3475 . 2521	.2363 .2244 .1188	921 . 0459	.5610
FUSELAGE DEPENDENT VARIABLE	. 0460 .0700 .1120	.08460022	8151. 8270. OISI.	. 9210 . 9790 . 9210	.0953173416091700 .0953155921351643 .1518009109270683 .0716012408311545 .0260011428312119 .06.5 .155346023224 .06.5 .290047773794 .00623838	9 BETA (1) # -7.888 R'CH #	FUSELAGE DEPENDENT VARIABLE	0511. 0700 . 07450	. 1017 . 0383	3475 . 1506 3475 . 2521	.3318 .2363 .3094 .2244 .2116 .1188	. 0921	.5610
DEPENDENT VARIABLE	. 0230 .0460 .0700 .1120	.08460022	8500. 0151. 820S.	. 0156. 0676. 0158. 0677. 0657	.043003991734160917000683155921351643155921351643155921351643155921351643155615451553469233241565290047773794379415612363	BETA (1) # -7.888 K:CH #	DEPENDENT VARIABLE	0 .0230 .0460 .0700 .1120		3475 . 1506 3475 . 2521	.5:82 .33!8 .2363 352 .475: .3094 .2244 .35!0 .1188	. 0921	5610

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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

		.5740					4.7971		.5740	.0863	.1228						
	ļ	.4970	0987				•		.4970	.0792	.075%	0687 0812 2157	0967	0764	0615		
		.3780	1095				RN/L		.3780	.0451	.0697	0825 0970 2235	1106	0953	0777		
		.3010	1818				- 2387.2		.3010	.0133	.0485	1206 1468 3594	2015	1768	1492		
		0189.	3143				0.		.2510	0090	.0089	2067 2378 3554	4762	++55	2866		
		0402.	-1.6726	1.0460	.0199		590.06		.2040	014	0138	300 m	4360	-1.3995	-1.5788	1.0460	0277
		.1770	·	1.0180	. 1809 . 1809		- 59		0771.				6	0300		1.0180	.2890 .1879
		. 1660	.1704	0666.	69 8	- 2626	o		.1660	0114	0079		.3805	.3865	.2675	.9990	
	3LE CP	. 1580		.9600	0421 1056 0292 1099	1569 2007 1524 2610	.59424	BLE CP	.1580						.5469	.9600	0348
	DEPENDENT VARIABLE	.1120	0490.	.9210	1427 1030 .0915 0423	1454 1429 1138 0418	MACH =	NT VARIABLE	.1120		.0656	.0795 .0797 .1104	1004		. 0938	.9210	1386
-7.888	DEPENDEN	.0700	.0100	.8790	1203 1659 .1091 .0643	1885 2233 2545 .0965	3.859 M	DEPENDENT	.0700	.0678	. 0697 . 1264	.1373 .1373 .1278	.0442		.0418	.8790	1197
		.0460	.0516	.8210	1212 1119 .2026 .4078	.5501	<u>'</u>		.0460	.1317	. 1506	7925. 7455. 6605.	.1023		.0833	.8210	1199
TA (1)	36	.0230	1180.	.7790	0242 0242 0026 .0516	.0836 .1484 .1576 .1339	 TA (2)	loe 10e	.0230	.2573	3053	. 4003 7004 7004 7009	.1857		. 108	.7790	0385
63 BETA	R FUSELAGE	.0000	.2917	.7290	.0212 1739 1234	1545	96.1	110RBITER FUSELAGE	.0080	.6793		.506			.2818	.7290	.0227
≥ 7.963	1 ORBITER	.0000	**66.	.6520	.0635 .0761 2870	3163 1341 1084	- 2360	1.10RB1TE	. 0000	1.0195					1.0195	.6523	. 3684 . 3811
ALPHA (4)	SECTION: 0	X/LB	PH1 180.000	X/LB		135,000 135,000 150,000 150,000	ALPHA (4)	SECTION 1	X/LB	PH1	20.000 40.000	55.000 70.000 95.000 95.000	150,000	151.000 162.933 165.900	174.000	X/LB	PH1 .000 40.000

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TABULATED PRESSURE DATA - OAIWB (AMES II-073-1)

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AVES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

					4.7971	į	.5740	.0950	.1196							
					•		.4970	.0869	.0708	0854 0845 1328	0614	0486	0464			
					FN/L		.3780	.0525	±8±0°.	1083 1047 1524	0794	0699	0506			
					2387.2		.3010	. 0232	. 0236	154816743122	1708	1527	1395			
							.2510	.0028	0269	2538 2677 3581	3995	2998	2712			
		1.0460					.2040	0069	0636 0463	1485 2032 3966 3966	5130	-1.3469	-1.5228	1.0460	.0334	
		1.0180 1			= 590.06		0771.	Ť			1988		1	1.0183	. 2934 . 1726	
		. 9990	0 0 0 1	2473	ø		.1680	0002	0053	0755 1024 1115 0227	3008	255.2	.3205	9666.		2357
	e G	.9600	0511 1263 1750	1698 2077 1672 2419	.59424	E CP	.1580	·					.5189	. 9600	0298 0759 0744 1399	1949 2124 1825
	DEPENDENT VARIABLE	.9210	. 0528 0357 0914	1701 1618 1411	5	DEPENDENT VARIABLE	.1120		.0353	.0073 .0064 .0042	5460.		## ## ##	.9210	1358 1160 052	
929)EPENDEN1	.8790	. 0557 - 0015 - 6770	2436 2436 2351 0236	.178 MACH	CEPENDEN'	.0700	.0752	.0914	. 0767 . 0488 . 0450	71.40.		.0576	.8790	1164 1650 0029 0768	
= -3.859	U	.8210	.1467 .1846 .3007	ស្រួញ	. 2775.	_	.0460	01.1	17147	0.000	1000		.0971	.8213	- 1028 - 1028 - 1039 - 1039	
, A	Щ	.7790	0540 .0049 .0516	.1612 .2090 .2047		ų	.0230	ر بارد بارد	80000 44000	10.00 10.00	1709		. 1363	.7793	0321 0135 0136	1236 1399 1587
S BETA	FUSELAGE	.7290	. 1565	.074.	. 0269 1 BE	7 FUSELAGE	. soeo	 0 U		.3565			. 2968	.7290	.0316	1740
7.986	110PB17ER	.6530	.3180	2258 - 0293 0591	님	1 10FB1 TER	0000	0160	;				1.0310	.6523	. 0755 . 0950 3425 434	1522
# C# 1 *TE-T#	1 0 NOT 1088	in J W	7H1 70.09 05.09	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	80.000 Prix (+)	1 \$01.000 01.0000	<u> </u>	,	385	46.000 46.000 90.000 90.000	388	5.50 5.50 5.50 5.50	ម៉ូម៉ូម៉ូ	en R		179.176 179.200 180.200 186.000

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AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

R (XE8B66) 2387.2 ۵ .9990 1.0180 1.0460 590.06 0 .9600 -.2196 .59424 DEPENDENT VARIABLE CP DEPENDENT VARIABLE .9210 -.2003 MACH -.1095 .8790 4.237 .4125 .8210 BETA (4) 3 .7790 . 1564 . 1651 BETA SECTION FINCHBITER FUSELAGE SECTION (1) ORBITER FUSELAGE . 7290 . 0299 7.992 7.991 .6520 -.0479 ALPHA : 4) A. PHA C 4: PH1 155.000 193.000

X/EB

X/LB

.5740

.1036 .0821

0784. -.1019 -.0897 -.0782 -.0515 -.0599 .0815 .0388 -.0461 -.1207 -.0674 -.0767 .3780 .0126 . Q441 -.0686 - 1734 .3010 .0170 -.0269 -. 1422 -.1484 -.2848 -.2966 -.3581 .8510 -.0068 -.2893 -.2829 -.0855 -.3576 -.0186 -.0424 -.0933 -.2119 -.2631 -.3440 -.4513 -.5663 1.0460 -1.2875 .2040 -1.5092 1.0180 .1770 -.0133 -.0547 -.0547 -.1501 -.1775 9666. .1660 3645 .3030 2942 . 1580 .4613 .1120 -.0107 -.0224 -.0925 -.0649 -.0634 .0969 .0539 .0587 .0319 .0226 -.0519 -.0514 -.0538 .0700 .0028 .0347 .0460 .0687 .1352 .0187 .0423 .0183 .0183 .0183 .0671 .0230 6595 1049 1049 1049 1011 1011 .1270 . 1293 .0080 .6650 .2461 1.0140 .0000 1.0140

. 2927 . 1608 -.3105 -.0384 -.0664 -.1084 -.1614 -.2376 -.2460 -.2233 -.2449 .9600 .9210 -.1337 -.1239 -.0434 -.1243 -.2636 -.2473 -.2728 -.2892 -.1212 -.1816 -.0609 -.1437 -.3507 -.3514 -.3627 -.2290 .8790 -.1164 -.1025 .0262 .0167 .8210 . 3530 . 3530 . 3973 -.0327 -.0203 -.1254 -.0511 .7790 .0335 .1257 .1485 .159 .1619 .0273 -.2773 -.0895 .0035 .7290 . 35.00 . 35.00 . 35.00 . 35.00 .6520 -. 1769 1.00 mm X/LB

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				AMES 11-	073(0A)	6	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	R ORB FI	USELA	GE GE		(XE886E)			
A_PHA (4) = 7.989		BETA	BETA (5) =	8.293	MACH	•	8.293 MACH 59424 Q			- 590.06	۵.	= 2387.2 RN/L = 4.757	PR/L	\$ 1	73.
SECTION (1) ORBITER FUSELAGE	RRITER FL	ISEL AGE		3430	DEPENDENT VARIABLE CP	ARIAE	K CP								

	.57%0	.0820									*.7978		5740	5741.	.2081	
	0.4970	.0057	116* 0852 0570	0592	0863	1028							0.4970	7151.	. 1586	0844 1310 4991
	.3780	.0350	1355 1019 0717	0674	0905	1209					SANT.		.3780	. 0893	. 1469	0913 1338 4815
	.3010	.0057	1954 1764 2378	1552	1621	- 185 *					= 2387.2		.3010	.0575	. 1250 057 1	1146 1626 5545
	500	0220	3051 3062 3597	3328	2982	3174					<u>.</u>		.2510	.0360	.0961	1790 2214 4234
	.2040	0302 0783 1661	. 3027 - 3027 - 3546 - 5088	7836 7836	-1.2842	-1.4937	1.0460	.0370			590.06		2040	.0311 .0488	.0831 0155	0805 1743 3123
	.1770			3375	-	·	1.0180	. 2932 . 1543			e E		.1770			
	.1660	- 0268 - 0661 - 1204	2139 2738 2030	.0799	.2313	.2015	.9990			- 2658 - 2658	o		.1660	.0411	.0711	.0361 .0201 .0416
RE CP	.1580					.3921	.9600	043¢ 0711	1102 1658 2271	2818 2940 2851 2774	.59422	BLE CP	.1580			
DEPENDENT VARIABLE	.1120	0398	1706 1258 1251 0604	0058		.0611	9210	1354	0653 1379 2180	3290 3184 3687 3843	MACH =	DEPENDENT VARIABLE	.1120	1460	187	. 1557 . 1185 . 0452
DEPENDE	.0700	.0321 0043 0493	1202 1333 1195	0543		0098	.8790	1252 1846	1003 1801 3142	4566 4509 4557 3795	-7.845 M	DEPENDE	.0700	.1463	2659	. 2089 . 1999 . 0117
	.0460	. 1208 . 0742 . 0190	0722 0902 0807 0505	.0092	,	.0316	.8210	. 1222	0350 0427 .0189	.2201 .3746 .1333	r 1		.0460	5155.	3697	.3159 .2532 .0903
3	.0230	. 1786 . 1275	. 0571 . 0338 . 0484 . 0533	. 0521		.0924	.7790	0378	1668 1226 0709	0303 .0672 .0902 .0953	BETA (1)	IGE	. 0230	.3659	5886	.4838 .4003 .2229
'R FUSEL/	.0080	.6303	.0102			1821	.7290	. 0227	2958 2182	1245	.002 86	TR FUSELAGE	. 0080	.7674		5493
110RB1TE	.0000	.9543				8	.6520	.0638	अंद्रिक्त स्ट्रिक्त स्ट्रिक्त	0783	= 12.0	110RaitER	.0000	<u> 9196</u>		
SECTION (1) ORBITER FUSELAGE	X/LB	PHI 000 20.000 0.000	55.000 70.000 90.000 120.000	140.000 150.000 151.000	162.000 155.000 169.000	174.03 0 180.000	X/LB	Pr.1 .000 40.000	70.020 50.000 105.000	130.000 130.000 150.000 165.000	ALPHA ' 51	SECTION (x/18	PH1 .000.	40.000 55.000	70.000 90.000 120.000

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) 76 DATE 10

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BETA (1)

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ALPHA (5)

(XEBBEE) AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

PAGE 1011

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.5740 .5740 .1575 2012 .4970 .4970 -.1438 -. 1520 -. 1236 .1387 -. 1500 -1080 . 1481 A Z -.1310 -.1525 -.3621 .3780 -, 1553 .3780 . 1029 .1189 - 196t -. 1243 -.1391 -.1152 2387.2 .3010 -.1668 . 0929 -.2861 -.2400 -. 1852 .0734 -.2403 - 198± .30 .2510 -.2555 -.6232 -.4070 -.3278 . 018% .0540 .0457 -. 35£2 -.5300 ٥. -.4715 .0528 .0504 .0464 ..0956 ..1528 ..3736 ..3736 .2040 -1.5667 -1.9351 .2040 1.0460 -1.5389 590.06 .1770 ..0504 1.0180 .1770 .3718 -.2861 . 1660 .3380 .1097 0666. .0596 .0596 .0122 .0184 .01453 . 1660 3460 O -.0158 -.0844 -.0119 -.0997 -.1464 .4985 .9600 -.1721 -.2240 -.1688 -.2524 .59422 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.1053 -.0592 .1025 .0131 .1120 .0016 .1120 .0080 0173 = -3.839 MACH = .1013 .1507 .0851 .0744 .0546 .0303 -.0750 -.1320 .1098 .0669 -.2228 -.2754 -.3168 -.0737 .0700 .8790 .1723 .1792 .223 .1799 .1184 .1215 -.0638 .0700 -.0707 -.0465 -.0538 -.0437 .1945 .2440 -.0464 .5362 .2689 -.0818 .0460 -. 0288 .8210 .2877 .2877 .3241 .2784 .2143 .1630 .0598 .2263 .0460 -.0063 = 12.020 BETA (2) .0815 .0878 .0640 .0509 .0230 -.0433 .7790 .0230 .0572 .0356 .0213 . 0230 4027 4444 5187 5187 3805 3139 0527 SECTION CITORBITER FUSELAGE SECTION (1.0RBITER FUSELAGE .0080 .1119 -.253+ -.0784 .7290 .0882 -. 1045 .0080 -.2105 .8073 1404. -.1893 -.1779 -.1655 .1382 .1774 -.4197 -.3155 .9190 -.4468 .6520 .9487 ALFHA (5) 140,000 150,000 151,000 165,000 165,000 174,000 . 600 70.000 90.000 105.000 110.000 135.000 155.000 165.000 165.000 X11 13 X/LB

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AMES 11-073(0A148) -140A/B/C/R CRB FUSELAGE

	.5740					4. 7978		5740	. 1587	. 1825						
	0794.	0814				•		0.4970	1471	.1107	1546 1530 2303	1002	0669	0623		
	.3790	0799				RN/L		.3780	9111.	0620.	1651 1656 2490	1051	0794	0732		
	.3010	1558				= 2387.2		.3010	1670.	.0352	1975 2113 3976	1942	1537	1380		
	.2510	2981				٠		.2510	.0601	0203	2827 3016 4059	4453	3188	2836		
	.2040	-1.7851	1.0460	. 0068 0068		590.06		3040	.0525	0175	2153 2983 4187	7906	-1.4480	-1.6478	1.0460	6419
	.1770		1.0180	.3170		• 59(.1770					1589 1587	,	1.0180	.3127
	. 1660	.2081	0666.	į	2507	σ		.1660	.0663	0358	1059 1099 1192	.2737	£662.	.2517	0656	
BLE CP	.1580		.9600	0078 0657 0362 1096	1802 .2173 1726 2282	.59422	LE CP	.1580						.4603	.9600	0052 6 10 10 10 10 10 10 10 10 10 10 10 10 10
DEPENDENT VARIABLE	.1120	.0329	.9210	0993 0659 .0559 0241	1779 1786 1526 1084	MACH =	IT VARIABLE	.1120	ğ	0916	0007 0393 0393	.0327		.0453	.9210	1017
DEPENDE	.0700	0403	.8790	0705 1310 .0462 .0167	2427 2488 1843 0180	.186 m	DEPENDENT	.0700			. 0568 - 0568	0458		0303	.8790	0782
	.0460	0203	.8210	0566 0408 148 1659	.1926 .1259 .2664 .3857	ı,		.0450	. 25.9 7.00 7.00 7.00 7.00		. 0736 . 0736 . 0150	0024		012r	.8210	055+
넔	.0230	0115	.7790	.0304 .0533 1029 0339	.0853 .0837 .0738 .0654 .1:88	BETA (3)	وړ	.0230	. 4056 4156		. 2531 . 2078 . 1253	8940.		.0058	.7790	.0300
R FUSELAG	.0800	.1129	.7290	.1005 3094 2028	0737 0724 0117	83	P FUSELAGE	0800.	8:35 35		.2757			.1055	.7290	. 29 <u>0</u> 1
1109011	. 5000	.9487	.5520	.1460 .1721 4513	3674	in 	1:048178	0000.	. 9569					. 9529	.6520	1010
SECTION	97×	1 ac. 000	X/LB	PH1 .000 .4c.000 .000.000 .000.000	1350.000 1350.000 1550.000 1550.000	क्षा हमस्य ।	SECTIO: 1	en ×	11 n		10000 10000	រ (. គ រ (. គ រ (. គ រ () () ()	1000 1000 1000 1000 1000 1000	174 363 193.033	出いま	PH1 . 333 43.003

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TABULATED PRESSURE DATA - DAING I AMES 11-073-1)
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(9						RN/L = 4,7978		3780 .4970 .5740	1056 . 1469	. 0250 . 0787 . 1556	- 1831 - 1872 - 1655 - 1571 - 1662 - 1323		0+90*- 1690*	08250799					
(XE8B66)						= 2387.2		.3010	•	0281	2284 2172		1469	1509					
						۵.		5.55	. 0463	1044	3218 3215 3890	3845	3043	2929					
W			1.0460			590.06		.2040	.0447	0879	2758 3491 4689	6022 8071	-1.3842	-1.6258	1.0460				
FUSELAG			1.0180			i I		.1770				i	2477	•	1.0180	.3172 .1766			
-140A/B/C/R PRB FUSELAGE			. 9990		2438 2438	ø		. 1660	.0600	0345 0345	1708 1765 1071	.1732	.2500	.2357	0666.			3153 2408	
-140A/B		ABLE CP	. 9600	0657 1306 1832	1988 2231 1895 2263	.59422	BLE CP	.1580						. ± 080	.9600	0106 0480 0993		2446	
3(0A14B)		INT VARIABLE	.9210	.0050 0764	2110 2086 2119 2157	MACH	NT VARIABLE	.1120	1990	0169	0739 0739 0173	.0056		.0340	.9210		1253	2762	
AMES 11-073(0A148)	.185	DEPENDENT	.8790	0201 0946 1660	2673 2898 2749 1303	4.247 M	DEPENDENT	.0700	1618	- 0802	0726 0533 0879	0681		0497	.8790	0764 1499 0808		3634	
AME	3) =		.8210	.0543 .0817 .1269	. 1939 . 3354 . 4852	#		.0460	. 2481	1654	0039 0211 0342	0154		0171	.9210	0516 0483 0136		.3853	
	BETA (3	AGE.	.7790	1493 0545 .0276	.0896 .0621 .1198 .1549	BETA (4	AGE	.0230	.3919	3034	.1337 .1070 .0650	£610.		9110.	.7790		1002 5+69	0221	
	. 983	TER FUSELAGE	. 7290	3403	0683	.980	110RBITER FUSELAGE	.0000	.7943		. 1233			.0823	.7290	1460 3589		:381	
	=	1108BITER	.6520	4779 3453	1998 0852 0741	= =====================================		. 0000	50+6.					3405	.6520	1454 1509 1709 1788	3438	. : 989	
	ALPHA (5)	SECTION C	x/LB	73.000 30.000 105.000	135.000 135.000 150.000 150.000 185.000	ALPHA (5)	SECTION (X/LB	₽H1 000. 25.000	40.000 55.330	70.000 90.000 120.000	150.000	162.000 165.000 159.000		x/LB	888	000.00 000.00 000.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

541E :0 FEB 78

TION HOWL	(XEBB56)				9787 a 1/N9 6.7875 a 9		0478. 0784. 030E. 010E.	•	219511060326 .0422 .1301	3450245119962155 3292217215551518 3710267010801034	15280765	3002155208920910	3285195313181325			
	A SE		30 1.0460		590.06		0, 2040	.0326	1886	-, 5619 -, 3944 -, 5232		7 -1.3409	-1.6257	1.0460	1	
•	FUSELA		1.0180				. 1770				ì	3747 3747		1.0180	.3159	
	C/R ORB		.9990		ø		.1660	7740.	1183	2346 2346 1836	. 0620	. 1843	. 1480	9830		3027 2582
	-1404/B/	BLE CP	.9500	2379	. 59422	3LE CP	.1580						.3501	.9600	0176 0572 1136 1594 2389	2876 2954
	(B4148)	IT VARIA	.9210	2984	MACH =	T VARIABLE	.1120	285	0758	14 21 1786 0654	~. 04 2 1		0032	.9210	.1058 .1074 .0759 .1431	3440
	ATTS 11-0/3(UAIVB) -I4UA/B/C/R ONB FUSELAGE	CT/ DEFENDENT VARIABLE	.8790	2426	8.307 MA	DEPENDENT	.0700	1319			1165		. 1580	.8790	0755 - 1529 - 1245 - 2223 - 3794 -	4867 -
ì		,	.8210	.4238	# .00		.0460			- 1079 - 1077 - 1006	0553		. 0461	.82:0		.0937
	SFTA C	>	.7793	. 1263	TA (5)	35	.0230	.3655			MHEO.		5238	0877.	2278 2773 2773 294	.2916
	060 75	FUSE	.7290	0176	73 BETA	LICRBITER FUSELAGE	.0080	.7600		7070	•		- 1110	.7230	3883 3863 -3630	- 21:3
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(XEBB57) AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

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ii 3.		.2510	1950	3508	7583 7230 6713	8415	7416	7589				•		.2510	- 1953	3339	9546 9446 446 461
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PRESSURE DATA
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PAGE 1017

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			.2040	6218 8827	8511	9366	1.0460	.1087		5.		.2040	1723	2447 2447	1756 2553 2563	2870	9043
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S 11-073(0A148)	. 27 2	DEPENDENT	.0700	.2871		5404.	.8790	4269 3995 1310 2198	62%5 4617 3277 1106	3.871 MACH	DEPENDENT	0250.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		.3095	
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		0835				:056.9		3010	0561	0584	6879 1232	1730	2891	0546		
	.2510	8550				•		.2510	. 1793	. 2795	7302 7775	9423	8525	8834		
	0.08		1.0460	.1647				. 204€	5891.		. 2602 - 3622 - 3622		9135	. 3216	1.0460	. 1275 . 1273
		'	1.0180	.3733 .3024		≠ 601.34		3771.	·		•		1892	•	1.0:00	. 28°0
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T VARIABLE	.1120	.3402	.9210			ŧ	T VARIABL	.1120	. 300	11104	0.500. 0.330. 0.330.	.3089		. 3465	.9210	1665 2095
CEPERCENT VARI	-	.3112 .3402	.8790 .9210	36231598 32662182 .0556 .0799 0117 .0096	1274 0929 0821	MACH	EPENDENT	.0700 .1120			0150 - P1CO 0320 - P1CO 0320 - P1CO			3465.	.8790 .9210	35551665 31722095
	1. 0070	nu	. 0678	36231598 32662182 3556 .0799 3117 .0096 31350536				gaco .	.06880886	01:00 01:00 01:00 01:00 01:00 01:00	0150 - 1701 - 01501 - 1701 - 01501 - 0	512 . 2703			•	.271935 55 .25553172
TABOSIBADO I	. 6070. 38-	. 3112	. 8790 .	.259536231598 .252532662182 .1923 .0556 .0799 .26710117 .0096 .2678:350536	331024691274 394920200929 314415170821 42140707	177 MACH	TE CEPENDENT	. 5576. 3845	00880886	のまた。 のまたの。 のまたの。 のはの。 のはない のはない のはない のはない のはない のはない のはない のはない	0 # 1	.3512 .2703		. 1415. 79	. 9678. 01	.125725553555
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TABULATED PRESSURE DATA - OAIHB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

							3.5157		5740	. D242	SCOO.											
							•		0764.	.0305	.0215	0416	. 0231	0600	7480	. 0090						
ļ.							FRV/L		3780	015	.0033	. O	. C23.	0:00	.0168	5 C						
							- 1055.9		.3010	0800	0558	0910	2635	1316	0798	0829						
							•		.2516	2040	2894		7831	9687	8695	8738						
		1.0460					601.04		.2040	1752	2102		5701	9+15	8535	-1.2631	1.0459	7612.	in 5			
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		ენ66 -		3879 2804			ø		. 1660	1523	. 1804	1825 1875 1872	0147	.4718	.6329	.6130	266 6 .			3603	2952	
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	VT VARIABLE	.9210	.0197 0513 1204	2126	1.1906) 	MACH	IT VARIABLE	.1:20	,	1124 1124	0343 0230	. 1356	.2570		.3357	.9210		1,0001 1,0001 1,1000		- 28.57 - 38.51	
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225	TR FUSELAGE	.7290	1889	.0080	.0818	.0937	052 BET.	R FUSELAGE	.0090	8008		.4120				.6911	7230	(h) (i) (i)	- 1030 - 1075	Ç	7) 3	0000
u u	. 'CBB: 1E	.6523	1.00.1 1.00.1 1.00.1	0:81	<u>ខ្លួ</u> ម	œ	D	109BITER	.0000	1.1939						8661.1	.6530	0 t 0 t 0 t 0 t		i.	†	野芸
4-844 - 2)	() () () () () () ()	œ >	1000 1000 1000 1000 1000 1000 1000 100)	365	C 5	ALPHA (2)	\$207103	X/LB		0.00	92.09		50.00 51.00	865.000 1665.000 1665.000	20.08 20.08	а :7 х		1806 1806 1906 1906	* · · ·	-	.,

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AMES 11-07310A148) -140A/B/C/R ORB FUSELAGE

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				•		.¥970	.0661	.0590	. 0295 .0175 0540	018#	0087	.9015			
				TAR T		.3780	.0037	.0172	0251 0261 0894	. 0087	.0382	.0458			
				1058.3		.3010	0664	0466	1572 2125 3496	4325	4314	2796			
				•		.2510	1322	1704	5787 6211 6138	-1.0075	7928	9318			
		1.0460		599.87		.2040	1052	1332	1112 1306 2575	3534	9646	-1.0960	1.0460	. 2398 . 1610	
		1.0180		= 599		.1770				Ç	.3041	•	1.0180	3746	
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	LE CP	.9600	3092	.89987	ורב כם	.1580						.7733	.9600	.0884 0639 0183 0864	1347 1582 1781 2948
	DEPENDENT VARIABLE	.9210	3805	MACH =	DEPENDENT "ARIABLE	.1120		0677 0001	.0986 .1421 .1671	.2746		.2691	.9210	1833 2304 0018 0574	1473 1235 1176 1007
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n		.8210	.4222	н		.0460	.0965	1706	. 3005 . 3005 . 3154	.2722		. 2835	.8210	1949 1783 .1975 .2049	. 1921 . 2504 . 1911
BETA (3)	H G	.7790	.2631 .2930	BETA (13	IGE	.0230	2185	44904		161 4		.3375	0677.	0737 0552 0438 .0413	2745. 2809 2687 7687 4145.
OSS BE	R FUSELA	.7290	. 1002		R FUSELA	.080	.6653		.5910			.5743	.7250	.005.3 4219 3226	1195 .0195
#	110RBITER FUSELAGE	.6520	.0054 .0128	= 4.019	1) ORB	0000.	7102.1					1.2017	.6520	. 0326 . 0326 - 2103	1705 0725 0557 0557
4. PHA (2)	SECTION (81/x	PHI 165.000 180.000	ALPHA (3)	SECTION (1) ORBITER FUSELAGE	x/:B	1HG	20.02	ក្នុង ក្ខុង ក្នុង ក្ខុង ក្នុង ក្នង ក្នុង	1000 1000 1000 1000		174.000	X,LB		10000000000000000000000000000000000000

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PAGE 1				.4970	.0742	.0595	.0123	9800.	.0123	.0116				•		0.4970	.0659	. 0453	.0103 .0103
	123	3 RN/L		.3780	.0109	. 0281	0284 0210 0151	.0520	.0461	.0442				FRN/L		.3780	.0033	.0113	0333 0121 .0245
	(XE8857)	= 1058.3		.3010	0548	0487	1531 1812 2878	3873	2403	1876				= 1058.3		.3010	0727	0849	1408 1777 3128
		۵.		.2510	1307	1980	6637 7215 6933	-1.0398	9406	9549				ů.		.2510	1402	2228	7281 7965 7762
		599.87		.2040	1028	1347	1987 3085 3872	5131 9043	9758	.1.0426	1.0460	. 2388 . 1292		599.87		.2040	1055	1483	2587 4101 5274
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11-073-1	8	ø		. 1660	0860	0886	0680 0534 1241	.5508	.6202	.5884	0666.	75.0	- 2746	o		.1660	0873	0589	1308 1265 0277
3 1 AMES	-140A/B/C/R	.89987	SLE CP	.1580						. 7655 5	.9600	0909 0310 0644 199	2014 2046 2157 2978	.89987	LE CP	.1580			
1 - 0A14B	-073(0A148) ·	MACH #	IT VARTABLE	.1120	000	0135	. 0659 . 0868 . 2069	. 2541		.2792	.92:0	1953 2240 .0221 0573	2154 1953 2140 2179	MACH =	IT VARIABL	.1120	4C90'-	0400	.0022
PRESSURE DATA	=	.181 m	DEPENDENT	.0700	.0095	.0324	7501. 1500.	. 1890		.2216	.8790	2657 2619 0239 1196	4096 3467 2766 1038	.243 MA	DEPENDENT	.0700			.0018 .0174 .0625
	AMES	#		.0460	.1044	374		.2552		.252t	.8210	1967 1784 1019 0556	.2:16 .406: .4794 .4182			.0460			.0788 .0965 .1678
TABULATED		BETA (2)	N GE	. 0230	. 2225 24.25	3460	9107.	.3867		.3569	.7790	0687 0560 0822 .0129	.1478 .1873 .2159 .2237	BETA (3)	IGE	. 0230	. 2078 2059	. 25.83 27.74	. 2255.
			R FUSELAGE	.0083	.6675		.5436			.5694	.7290	.0064 4156 3139	1049 0026	.022 BE	R FUSELAGE	. 5380	5459.		.3817
B 76		4.018	1)ORBITER	. 0000	1.2077					1.2077	.6520	.0582 .0454 2243 1649	1113 0465 0420 0381	# #	1.007B1TER	.0000	1.:907		
DATE 10 FE		ALPHA (3)	SECTION (X/LB	PH1 .000	40.000 10.000	70.000 90.000 120.000	150.000	162.000 165.000 169.000	180.000	X/LB	PH1 1000 1000 1000 1000 1000 1000 1000 1	135.000 135.000 155.000 165.000	ALPHA (3)	SECTION (X/LB	1H9 000.	40.030 55.030	70,000 97,000 120,000

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	ORB FUSELAGE
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ı	-140A/B/C/R
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	AMES

	6740								3.5837	7.7t.0		1469	0±8:·			
	600	9/ p.	.0103	.00 <i>7</i>	0018						o in	.1187	. 1223	.0042 0208 1596	0322	0159
		. s /80	.0477	.0363	. 6620.				FRV/L	Î	.5/80	.0413	.0654	0874 0999 2536	1655	1408
		.3010	3395	2377	2675				• 1057.8		.3010	0219	.0059	1889 2444 4734	TTT#	5176
		.2510	-1.0245	7929	9479				۵.	!	.2510	0570	0723	4959 6023 6474	6122	6306
		040%	6955 -1.0231	9857	-1.1129	1.0460	1047		500.32		. 20¥0	0327	0348		306c 4796	-1.0004
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243	DEPENDENT VARIABLE	0000.	. 1255		.2105	.8790	2560 2527 1263 25653	5119 5182 4285 2207	BED MACH	DEPENDENT	.0070	. 1030	.1156	. 2350 . 2067 . 1646	. 1199	
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	(XEBB57)			.3010	5107 -						•	1057.8		.3010	0127	0354	1956	3210	4599	4854		6484		
				.2510	6523							•		.2510	0576	1093	5325	707	6373	++79		6769		
				. 2040	8414	1.0460	.1649					600.32		. 2040	0278	0519	1119 1502 2479	- 3544	8737	-1.0350		8603	1.0460	. 1373
_	FUSELAGE			.1770		1.0180	.5017					• 60		.1770					1819	.2121			1.0180	.5044
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		بن ب ب	4970	.070. .070. .0350. .01510.	.0125 5710.	.0031	
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1:-073t0A148)	189 MA	DEPENDENT	.0700	.2275	.2294 .2294	.1464 .0956 .0717 .0256	.0301		. 0559	.8790	1438 1928 2818		-,4417 -,413% -,3657 -,1449	4.261 MA	DEPENDENT	.0700	.2130 .1811 .1498 .0333 .0052
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)) -	TA (2)	#3E	.0230	.5099	. 5225	.4448 .3751 .3292 .2399	.1573		.1183	.7790		(3	.00470 .00770 .00770 .0070 .000	7.4 (3)	ig.	. 5230	.4989 .4733 .4162 .3062 .2501 .3751
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· · · · · · · · · · · · · · · · · · ·	AHG_A	SECTION :	X/LS	PH1 000	OB	55.000 70.000 90.000 120.000	50.0% 0.0%	000	CO	¥ // B		90.95 90.95		(0) 有上的一种	1 NO. 1087	αυ 	74.7 20.000 46.000 75.000 76.000

AMFG 11-072.1	
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PAGE 1027 £970 **.0002** .0. \$2.0. -.0002 .3780 -.2372 -. 2056 -. 2429 (XE8857) .3010 -.5378 -.5515 -.5538 ٠ 5 -.5888 -.6143 -. 5987 .2040 -.6171 -.9596 -.6573 1.0460 . 2699 . 1174 AMES 11-073(0A148) -: 40A/B/C/R ORB FUSELAGE .1770 .0919 .1162 1.0180 .5487 .3699 . 1660 .9990 .4482 .5281 .5056 .1580 .0719 -.0417 -.1873 -.2108 .6376 .9600 DEPENDENT VARIABLE CP .1120 .1303 .1549 .9210 -.2997 -.3035 -.2484 -.4173 .0700 -.0070 1110. .8790 -.1524 -.2062 -.3537 -.4017 4.261 .0460 .0500 .8210 -.0507 -.0254 -.0897 -.0816 .0741 .0230 . 1292 .093 .0975 -.1805 -.1186 .7790 BETA SECTION (1) MPSITER FUSELAGE .0080 . 2229 . 1645 -.7364 -.5864 . 7290 11.953 :00**0** .2223 -.4401 -.3346 .6520 1.0993 ALPHA (5) PH1 140.000 150.000 151.000 162.000 165.000 169.000 174.000 .000 40.000 70.000 90.000 1105.000 125.000 125.000 155.000 155.000 165.000 X/LB X/LB

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BEOL BOAG	(XE8B68) (05 AUG 75)	PARAMETRIC DATA	. GCO SPCBRK = 55.000 22.500 L-ELVN = -4.000 -4.000 MACH = .600	- 2387.2 RN/L - 4.8347		0472. 0784. 037E. 010E. 0125.
	35		RUDDER = BOFLAP = R-ELVN =	593.04 P		
5 11-073-1)	CON ORB FUSELA			•		.1660 .1770 .2640
CATE :0 FER 73 TABULATED PRESSURE DATA - CAIMB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	REFERENCE DATA	SREF = 2693.0000 S3.FT, XMRP = 1076.6800 IN. XO LMEF = 474.8300 IN. YMRP = .0000 IN. YO BASE = 936.0560 IN. ZMRP = 375.0000 IN. ZO SCALE = .0300	ALPMA (1) = -3.934 BETA (1) = -7.845 MACH = .59574	SECTION (1) 0391TER FUSELAGE DEPENDENT VARIABLE CP	X/LB 6000 .0380 .0230 .0460 .0700 .1120 .1580

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	.2510	2538	. 1948	1846				•		5165	1114	1234	4942	3459	2332	2084
	.2040	4820	9307	-1.1339	1.0460	400₹.		593.04		.2040	- 1407	- 1844 245	2891	4516	• •	9438
	0771.	.0314	. 0922		1.0180	. 3585		* 593		.1770					60	0319
	. 1660	. 4053	. 5223	.5087	0666.	Н С	. 2916 2816 	ø		. 1660	1666	2110	2315	1.191	. 2933	.4610
BLE CP	.1580		•	* A	.9600	. 0191 0532 1045 1659 2153	2596 2251 1987 2844	.59574	RE CP	.1580						.6353
NT VARIABLE	.1120	.2729		. 3263	.9210	- 1412 - 1447 - 0084 - 0873	2426 1725 :682	# HOW	IT VARIABLE	.1120	7075	2017	- 1390	.0182	.2028	
DEPENDENT	.0700	. 2621		. 3342	.8790	- 2018 - 2018 - 0008 - 0008 - 1019	- 302 2344 - 2344 - 1779 - 0328	.270 m	DEPENDENT	.0700	2215	-,628+	1159	.0187	.:898	
	.0460	.3556		.3741	.8210	2885. \$885. \$35. \$3. \$3. \$3. \$3. \$3. \$3. \$3. \$3. \$3. \$3	2007 4007 47807 6057 7007	11		.0460	1855 1851		0710	305:	.2976	
AGE	.023	£18+.		.4859	0977.	1.1834 1.		4	LAGE	. CE 30		187	1.003 1.003	6693	3999	
R FUSELASE	0083			7192	7233	11 a	17 41 (6) 10 (4) (0) 6) - (1)	86	13 13	aeto.	6541		2735			
L	Ö			••	•	• • • •		()	Q				•			
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REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) 34 63 10 1 3 TAC

PAGE 1031

(XEBBEB) AMES 11-073(04148) -140A/B/C/R ORB FUSELAGE 4.270 BETA (4) -3.933 ALPHA (1)

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350 4970 .0036 ž SEC. -.0350 2387.2 .3010 -.0978 .8310 -. 1980 .2040 -1.1231 1.0460 593.04 1.0180 .1770 .3438 .2342 . 9990 - . ¥479 - . 3002 . 16ec **+98**+ ø .9600 .0151 -.0413 -.1175 -.1780 -.3138 -.2707 -.2466 -.2848 . 1580 .59574 DEPENDENT VARIABLE CP -.1402 -.1523 -.0358 -.1194 -.1879 -.3298 -.2470 -.2633 -.2676 .1120 .9210 .3208 Ā .0700 -.1817 -.2275 -.0406 -.1181 -.4187 -.3450 -.2822 -.1423 .3199 .8790 8.339 -.2392 -.2250 .0704 .0653 .0653 .3640 .1033 .3173 .4766 .8210 .0460 1444. . S .0230 -.1820 -.1770 -.0163 .0279 0768 1818 2084 2147 .4767 .7790 BETA SECTION : 11 CRBITER FUSELAGE SECTION (1) DABITER FUSELAGE .0080 -.0736 -.0005 .1034 .7290 .0636 .6304 -. 1421 -3.916 0000. -.1:67 -.1+05 -.0325 -.005+ .0299 .0340 .0326 .6550 -.0038 1.0352 ALPHA (1) 40.000 90.000 100.000 110.000 1130.000 1130.000 1100.000 1100.000 1100.000 180.000 H . K X/Le

350 -.0873 BE. £970 .010. -.0650 -. G442 -.0612 -.0513 -. C598 4440.--.0186 -.0349 -.1181 3780 -.0773 -.0354 -.0989 -. 0880 -.0792 -.0953 -.1361 -.3463 .3010 -.1356 -.0980 -.0535 -.1487 -. 1534 -. 1288 -.2593 -.3233 -.3945 . 5 5 5 5 -.2712 -.1159 -.2342 -.2407 - 1548 - 1578 - 1774 - 2555 - 3247 - 4950 - 5447 - 5231 .2040 -1.1482 -. 9920 1.0460 -.2626 -.1820 .170 1.0180 - 1791 - 1905 - 2387 - 2766 - 3421 - 3421 . 1660 . 1443 .3583 .3899 .9393 .1580 .9600 9479 DEPENDENT VARIABLE CP . 1120 -.2103 -.1916 -.2130 -.2315 -.1041 .9213 .2802 101. .0700 - 2035 - 2235 - 2235 - 1977 - 1765 - 2096 .0925 .2768 .8793 - 1989 - 1989 - 2152 - 1687 - 1555 - 1431 .8212 .0460 3185 -.2011 -.2077 -.1272 -.0552 -.0104 .0239 .2855 . 4265 CELL. .0080 .0955 .1271 6253 . 1293 .0003 9033 9838 0550 X/LB ů. X

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.0319 57.40 - 0545 0.51 -.05.6 - 2243 - 0630 5500 54.49. 7.89.99 . 1556 -.0571 Z -.0955 39.6 - 35E -.0789 £83. -. 0813 2387.2 - .0959 - .0559 - .8556 3010 -. 0972 -. 1573 -. 1569 - 57 185 ero. . --.267E - 1350 - 1550 - 2275 -.3973 .25.5 -.29-0 -. 1535 .9350 1.016J 1.0463 .2040 -1.3555 -1.1132 . 0560 . 0560 1.0460 ::75 . 1697 1.0180 85. 1869. -.3215 1378 1.1358 1.0485 1.0485 1.0038 1.0193 1.0193 .1663 -. 2530 5117 .5079 .3024 .9990 -.1246 -.3550 -.3224 -.2986 -.2927 .0248 -.0594 -.0582 -.1283 0000 . 59555 . 1580 .6562 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -7.895 MACH = -.0550 -.4078 -.3405 -.3731 -.3614 .9210 .1120 -.1127 -.0906 -.0745 -. 1314 -. 1323 . 0672 -. 0126 .9210 .2072 .2630 -.0730 -.1576 -.2918 - .5436 - .4813 - .4456 - .4756 .8790 - 1642 - 1977 - 0934 - 0313 .3736 1.1498 1.17389 -.1395 295: .6790 .2367 -. 89.4 1358 8484 .0395 .0164 .0337 .82:0 0.0463 - 1934 - 2059 - 2061 - 2061 - 2438 - 3638 いなけれり .8210 .5174 .4401 .2550 30+0 . 19.79 BETA (1) -.0335 -.0335 .0689 .7790 -.0068 .0794 .0230 16-97 . 200 H 3231 7790 BOADBOUT RETURNO'1 : 1 DRBITER FUSELAGE 35.35 -.0984 -.0610 -.0557 -. CC34 3135 10 th 13 . 3383 .0393 1351 58:: .7233 . 2193 - 2932 00591 7 00 m -.0532 -.0887 1.0400 0000 C233. 0.1 ..0343 -.3683 -.0345 NO11035 m ... ă

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TABULATED PRESSURE DATA - DAIVB (AMES 11-073-1)
CATE 10 FEB 76

					200	į	472	<u>}</u>	0210	0310													
						1	400)	2116	0417	.0328	.0209 .0189	0212		D212	1924							
20 20							2780		0346	- 0469	0025	52W 92W 95W	6555		- 6559 -	- 0562							
CXEEBER					5.787.2		3010		0550	0516		6984 2227	1283		- 1323	1265							
					٠		0155		0892	1218		2121	34th		2569	2344							
L.I			1.0460		592.68		.2040		1032	- 1690	1607	- 2654	5339	!	-1.0907	-1.3116	1.0463		7.0977				
ORB FUSELAGE			1.0180		*		0771.							. 134 W. 1	•	•	1.0180		.3566				
/C/R 0RB			ე666 .		o		.1550		1260	- 1830	0679	. 0912 . 0912	.4623		4999	.3907	.9990				3383	• - - -	
-140A/B/C/R		ABLE CP	.9600	2819	. 59555	BLE CP	.1580									.6593	.9600		.0528	0767 1457 1969	1937	2030	2739
3'0A14B)		DEPENDENT VARIABLE	.9210	0391	MACH =	NT VARIABLE	.1720		1649	1337	.0453	2169	##52·			¥04.	.9210		1238	. 0282 6524 1122		1338 1248	
AMES 11-073/0A148)	-7.889	DEPENDE	.8790	. 1258	-3.860 F	DEPENDENT	.0700		1312	1160	.1137	.2125	. 2255			. 2267	.8790		1578	. 0439 0204 1151		- 1889 - 1889	
F. F.	- = =		.8210	TTTS.	2) = -3		.0460		0854	0434 .1185	. 1859	3131	. 2955			.2680	.8210		u m	. 1317 . 1908 . 2083 . 2083	() ()		.3633
	BETA (LASE	. 7790	. 1866 . 1495	BETA (2	AGE	. 0230		0308	.3145	. 3869 4343	.4715	±00±.			. 3552	£677.	•	1380	. 1206 . 1206	(.)		l) t i
	. 067	TER FUSELASE	.7290	÷210-	.076	ER FUSELAGE	.0380		.3500		.6028					. 5955	.7290	, to 0	, ,	0357 0357	.0334	ن ا ا	. ce
		(1109BITER	.6520	7.0410 0502		1108BITER	. 0000		1.0709							6040.1	.6520	i,		1 (D) (C) (C)	1.0387	00 00 00 00	3 ()
	M. ATALY	SECT 10%	x/FB	PHI 165.000 183.000	ALPHA (2)	SECTION	e1/x	II d	200. 200. 200. 200.	15.00 15.00	90.000 90.000	170.638 147.638		165,000	169.000 174.000	180,000	X/L9	17.E	 	7000 7000 7000 7000	6.8		

	4.8372		.5740	0152	0110								4.8372		.5740	0221	. 0028	
	ب		4970	-, 0092	0265	.0055	0105	0088	0131						.4970	0106	0215	0011 0007 0163
68)	FRV1		3780	0280	0275	0282	0439	0429	0450				FRV/L		.3780	0310	0223	0360 0372 0553
(XEBBBB)	2387.2		3010	0565	9440	0911		1208	1115				2387.2		.3010	0557	0443	1077 1303 2589
	• •		.2510	0802	0959	2195		2418	22 ¹¹ 2				•		.2510	0893	1 260 -	2449 2834 3304
	592.68		.2040	1046	1521	2250 3250 3250	4053	-1.0843	-1.2950	1.0450	. 0978				.2040	+ 00	1438	
FUSELAGE	* 595		.1770					0125 .0179	•	1.0180	. 3643 . 2493		* 592.68		.1770		•	
	a		1550	1196	1583	1384 1521	3	.4690	.4455	0666.		2507 2742 2742	0		. 1660	1262	- 1459	1937 2255 1526
-140A/B/C/R ORP	. 59556	LE CP	.1580						64 16	.9600	.0248 0518 1051 1567	2398 2355 2119 2711	59556	E CP	. 1580	• •	,	•
	MACH	IT VARIABLE	.1120	0 2 1	1238	0270 0170	.2128		.2498	.9210	1263 1273 0128 0928	2301 1879 1913 2054		T VARIABLE	.1120	1. 20.21	- 1281	0927 1063 .0346
AMES 11-073(0A148)	M 771.	DEPENDENT	.0700						5145.	.8790	1583 2080 0785 0890	2909 2599 2221 0769	.252 MACH	DEPENDENT	.0700			0652 0797
AMES	n -		.0460	0757	959.		2673		.2799	.8210	1932 1945 .0977 .1130	.3538 .4132	æ H	_	.0460	0832 0856		0182 0136 1130
	3ETA (3)	351	.0230	0332	1204	3172	.3830		.3691	0677.	1337 1325 0195 .0415	1648 2279 2259 5255 5255	TA (4)	GF.	.0230			1919 250 250 250 250 250 250 250 250 250 250
	3€ 870.	R FUSELA	.0080	.3550		10 mm m m m m m m m m m m m m m m m m m			.5887	.7290	0865 1193 0570	.0764	74 BETA	R FUSELA	.0080	.3318		דברב.
	6.	(1) ORBITER FUSELAGE	. 0000	1.0781					1.0791	. 55.	+.0525 0917 +.1216 0732	.0156 .0156 .0209	470.	110PBITER FUSELAGE	.000	1.0589		
	ALPHA (2)	SECTION (X/LB				<u> </u>	167.000 168.000 169.000		87/X	# 9000000000000000000000000000000000000		ACTIVE CRIT	55071014 (X/LB	. 330 . 300	#C.000 5%,000	12.000 00.000 180.000

DATE 10 FE	FEB 75		TABULATED	α.	RESSURE DATA	A - 0A148	_	AMES 11-073-1	<u>.</u>					PAGE	1035
				AME	AMES 11-073(0A148)		-140A/B/C/R	ORB B	FUSELAGE			(XE	(XE8868)		
ALPHA (2)	ti	.074 B	BETA (4)	#	. 252										
SECT 10N	(1)ORBITER	TER FUSELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	.0000	.0080	.0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	.+970	.5740
PH1 140.000 150.000 151.000		•	.3187	.2164	.1196	. 1512		.2690	1426	4770	2909	1312	0569	0240	
165.000 169.000								.4125		-1.0726	2439	1310	8550	0233	
180.000	1.0589	.5582	.3610	.2677	.2257	.2408	. 5935	.4187	•	-1.2740	2386	1238	0548	0250	
X/LB	.6520	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 .000 %0.000 70.000 90.000 105.000	0585 0668 1295 0829	1432	1316 1285 0561 0023	1945 1888 .0504 .0497	1573 2075 0478 1341 2542	- 1259 - 1382 - 0401 - 1273	.0275 0311 1167 1816		.3570	.0959					
120.000 135.000 150.000 165.000	0413 .0019 .0040 0023	0226 .0496	. 1919 . 1919 . 1919 . 1944	. 1169 . 3051 . 3722	3985 3563 3217 1886	3076 2529 2809 2969	2884 2695 2507 2843	. 5487 . 2843 . 2843							
ALPHA 2)		199 BE	BETA (5)	89	8.307 MA	MACH #	.59556	O	. 592	592.58	Q.	= 2387.2	PN/L	•	4.8372
SECTION (110RBITER	ER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	RE CP							•	
X/LB	. 0000	. 0080	.0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	5155	.3010	.3780	.*970	.5740
PH1 .000 20.000	1.0077	.3053	0592	0944	1585	1 0 1		1399		1277	1040	0746	0497	0250	0407
40.000 55.000			0272	200		1.1447		- 1556		1568	1106	0544	0331	026	.0057
70.000 90.000 120.000		9460.	.0549 .0549 .1367	1025	1293 1687 1025	1494 1746 0729		2441 2907 2819		3051 4487 5233	2636 3060 3684	1156 1326 2852	0475 0423 0741	0046 0079 0348	
150.000			.2116	. 1369	.0315	.0651		,1214		5524 6856	2952	1530	0919	0613	
162,000 165,000 101,000 174,000							.5056	.3173	2420 2420 		2685	1615	0990	0623	

	(XE8868)	
TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE	BETA (5) = 8.307
		.38 690
34TE 10 FEB 76		A.PHA (2) = .0

						4.8446	!	.5740	.0211	. 0280						
Ş	?/ St.	0691				•		. 4970	.0185	.0093	.0102 0092 1559	1048	0895	0793		
	.3780	0990				I RN/L		.3780	0175	.0005	0059 0300 1675	1247	1166	1027		
,	.3010	1622				= 2386.1		.3010	0412	0130	0444 0800 2975	2049	1919	1754		
	0155.	2728				<u>.</u>		5. 5. 5.	0709	0548	1407 1679 2796	4758	3386	2962		
	. 2040	-1.3030	1.0460	.0043		594.20		.2040	0843	0976	0451 0826 1440 2161	3386 5691	-1.2796	-1.5110	1.0460	.0618
	.1770	•	1.0180	.3760		20 20		.1770				. 1282	.0951		1.0180	.4074 .2996
	. 1660	.3213	.9990	1 1	- 2955	o		. 1660	0923	1004	. 0307 . 0350 . 1429	.4668	4154.	.2382	.9990	
LE CP	.1580		.9600	.0228 0296 1272 1970	3349 3182 3130 2915	.59544	RE CP	.1580						.6097	.9600	.0359
I VARIABLE	.1120	.2000	.9210	1342 1504 0640 1652 2145	3884 3408 3887 3960	MACH =	IT VARIABLE	.1120		1076	1102 11571 1706 1715.	.1878		. 1381	.9210	1103
DEPENDENT	.0700	. 1849	.8790	1654 2131 0876 1789	5168 4884 4769 3349	.901 M	DEPENDENT	.0700	0588	0605	2003 2889 2898 2919	1464		.1098	.8790	1315
	.0460	.2210	.8210	1976 1853 .0124 .0028	0891 .1264 .3686	7- = (.0460	0086	. 1058	. 3333 . 3333 . 3335 . 3108	. 1862		. 1538	.8210	1531
મુ	.0230	.3128	.7790	1355 1232 0947 0434 0046	.0069 .0799 .1039		t OF	. 0230	6770.	1421	2. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	.3277		. 1965	.7790	0892
R FUSELA	0800.	.4871	. 7290	0916 1650 1097	0633	! !	1109BITER FUSELAGE	. 0080	.4792		.6973			.4375	.7290	0405
110RBITER FUSELAGE	.0000	1.0077	.6520	0644 0535 1450 0954	0469 0469 0469	= 4.022	11098116	. 0000	1.9267					1.0257	.6520	-,0002
SECTION (X/LB	PH1 190.000	א/רם	80000		אוביים ו או	35071631	X/LB	Per:	80.000 1000 1000	200 200 200 200 200 200 200 200 200 200	150.000 150.000	167. 167. 167. 169. 169. 169.	174.030 180.630	X /B	941 600 40,600

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TABULATED PRESSURE DATA - 0A148 (AMES 11-077-1)

								0.4970	.0321	.0215	0202 0297 1013	057Q	0515	0461			
(XE8868)						1 RRVL		.3780	0026	.0127	0405 0512 1210	0853	0791	0729			
CXE						- 2386.1		.3010	0236	0019	0855 1158 2789	1705	1579	1416			
						•		55.	0577	0478	1931 2212 3032	4079	2982	2686			
			1.0460			594.20		.2040	0649	0869	1500 2919	4015	-1.2483	-1.4679	1.0460	.0403	
FUSELAGE			1.0180			- 59		. 1770				.0487		•	1.0180	.3045	
ORB			. 9 990	() ()	2670 2670	σ		. 1660	0749	0803	0446	.4220	.4436	. 3322	0655.		*. seye *. 2663
-140A/B/C/R		BLE CP	.9600	0459 1287 1678	1557 1984 1652 2755	.59644	BLE CP	.1580					e e	. 0150	.9600	.0399 0587 1481	1892 2140 1869
		NT VARIABLE	.9210		1283 1283 1031 0549	MACH .	UT VARIABLE	.1120	200	0263	.0809 .0916 .1743	.1776		.1617	.9210	1082 1034 0465 1033	1706 1558 1530
AMES 11-073(0A148)	-7.901	DEPENDENT	.8790	.0991 .0508 0245	1669 1899 2127 .0997	3.862 M	DEPENDENT	.0700	0403	.0127	1335	.1344		.1309	.8790	- 1275 - 1808 - 0459 - 0160	<i>2225</i> 2256 2266
AME	7- = (.8210	.2016 .2480 .3891	.5332 .3832 .1415			.0460	. 0250	0939	.2301 .2301 .2462	.1877		.1631	.8210	1544 1528 1521 .1789	.3522 .3238 .2170
	BETA (1	AGE	.7790	.0265	1453 1913 1911 1558 1263	BETA (2)	NGE	.0230	.1198	3098	.4096 .4171 .3868	.3079		.2306	2677.	085 075 075 075 085	. 2316 . 2316 . 2257
	4.022 BI	110RBITER FUSELAGE	.7290	1230 0698	0034		1) ORBITER FUSELAGE	.0080	. 5208		. 5654			5444.	.7293	0340 1592 1017	-, (294 . 1353
	j.	130RB176	.6520	1834	1840 0980 0788	* 4.025		. 0000	1.0639					1.0639	.6520	.0055 0040 2175 1522	-, 12 <i>5</i> 4
	A. PHA (3)	SECTION (X/LB	70.000 90.000 105.000	125.000 150.000 150.000 165.000	ALPHA (3)	SECTION (X/LB	РН1 . 000 . 000	40.000 55.000	70.000 93.000 120.000	150.000	162.000 165.000 169.000	180.000	X/LB	PH1 40.000 70.000 100.000	00000000000000000000000000000000000000

37.50

9. 9. 2. 9.

DATE 10 FEB 76

AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE

				4.8446		.5740	.0347	. 0568													
				•		0.4970	.0344	.0176	0371	0370	0316	0278		0269							
				RN/L		.3780	龙00.	.0167	0555	0681 0806	0600	0591		0596							
				2386.1		.3010	0179	0030	115	1348	1450	1344		1313							
				# Q.		.2510	0479	0517	2309	2602 3242	3579	2745		2499							
		1.0460		594.20		.2040	0575	0730 0931	1510 2086	2991	4645	-1.2027		-1.4385	1.0460	1040	0150.				
		1.0180		* 59k		.1770					1	0539 0454		•	1.0180	.3874	. e /uu				
		0666.		σ		.1660	0686	0760	0940	1248	.3462		.4189	.3806	.9990			1622	2622		
	LE CP	.9600	2668	.59644	LE CP	.1580							5906		0096.	5040.	0363	1648	2175	2126	ر. د
	DEPENDENT VARIABLE	.9210	1399	MACH =	DEPENDENT VARIABLE	.1120		0744	0217	.1106	.1516			.1769	.9210	1101	1163	0926	2234	.2109	615/
-3.862	DEPENDEN	.8790	0062	.182 M	DEPENDER	.0700	0337	0389	.0501	.0345	.1117			<u></u>	.8790	1333	1891 0094	0835	2808	. 2439 2439	1013
		.8210	. 2896	n		.0460	.029€	. 0627	1178	1238	. 1744			. 1832	.8210	1579	1545 .0904	1021.	1314	3294	.3836
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	R FUSEL	.7290	. 0503	.023 EE	110RBITER FUSELAGE	.0080	.5229			4147				0144.	.7290	0335	1891	1155	0160	togo.	.0597
- 4.025	1.0RB17E	.6520	0305	. ,	110RBITE	.000	1.0709							1.0709	0259.	.0139	.2330	1527	0872	0183	016+
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92.61			4.8446	į	.5740 .0288	.0522														4.644B		5740	.0145	.0453	
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	ć	ĝ		9	.0038	0038	05759	0589		0543	0565									RN/L		.3780	9410.	.0323 -	0844 0583 0581
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_	¥	u 🗲		.0460	.0229 .0119	.0287	.0796	. 1308		.1723	6	0120	1587		.0284 5440		.3121	· <u>*</u>	# 6.53	۵	. 3460	}	. 0110.		
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	7780		0830	. 4101	0411				RN/L	7.780		.080	0432 0785 3050	1613	1439
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		2040 2040	5839 7339	1.2124	.4233	1.0460	.0909		594.33		. 6040	0249	0179 0763 1557 2646	6635	-1.4293
		.1770		2995	7	1.0180	. 2434 . 2434		* 504	į	971.			.0659	0128
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	E G S	.1580			.4582	.9600	.0332 0296 1256 1995	3063 3102 3200 2854	. 59642	LE CP	.1580				. 5565
	VARIABL	.1120	.0235		.1238	.9210	1194 1330 0681 1659	3598 3356 4015 4102	mACH "	T VAR! ABLE	.1120	0129	. 1534 . 1538 . 1598	. 0982	
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8.2	3	.0460	- 0657 -		.1284	.8210		180 058 850	. 2302		.0460	.1041	. 33697 . 33697 . 3369 . 43060	.0526	
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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C/R ORB FUSELAGE
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5740 57.0 . i 250 .050 4.0439 Ē .4970 -.0725 -.0855 -.219v -.0962 0.64 -.0962 E. -.0582 . -.0735 REVI .3780 3=-.3780 -.0821 -.0984 -.2256 .0675 -. 1140 9440 -. 0954 -.0779 2386.8 .3010 -. 1816 -.1209 .3010 .0170 .0486 -.2056 -.1775 -.1478 .2510 -.3163 .8510 -.2113 -.2391 -.3594 -.0092 .0036 -.4758 -.3365 -.2835 2040 -1.7911 .1055 - 0155 - 0167 - 0167 - 1470 - 2286 - 3286 - 4522 - 6923 1.0460 .2040 1.0460 .4018 -1.6488 594.33 .1770 1.0180 .4318 .170 -.0030 .3181 1.0180 9990 . 1660 -.3145 .1704 -.0103 -.0103 -.0151 -.033 0.53 .1660 .3922 T075. 0666. .3801 ø .1580 .0538 -.0397 -.0332 -.1201 -.1671 -.1693 -.2233 -.1788 -.2821 .9600 .59642 .1580 . 0598 -. 0255 .5663 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 -.0908 -.0668 -.0003 -.0514 .0645 -.1607 -.1602 -.1353 -.0631 .9210 .1120 -.0870 .0057 .0054 .0764 .0870 .0866 .9210 .0970 9.9 MACH .0700 . 0223 -. 1539 -. 1539 -. 1059 -. 00% -.1997 -.2350 -.2784 -.0926 .8790 -.0990 .0700 .0598 .0664 .1703 .1703 .1535 .1162 .0435 .8790 -0+0· -3.860 -7.890 -.1062 -.0963 -2014 -2502 -4020 .3+55 .3+93 -.0513 .0460 .0562 .8210 . 1238 -.1031 .0460 .1366 .1618 .2697 .2693 .2045 .2045 .8210 .0704 <u></u> .0710 .0230 .7790 -.0311 -.0035 -.0635 .0467 .0727 .1416 .1549 .1299 .3082 .3082 .4531 .4565 .4553 .5475 .5993 -.0285 .0230 1789 .1059 .7790 BETA BETA . I I CPBITER FUSELAGE SECTION (1) ORBITER FUSELAGE . 0255 -.1847 .0280 .7290 -.0177 .2781 -.1593 -.0396 .0083 .6793 .0325 .5007 2814 .7290 7.982 7.993 .0000 .0824 .0824 -.2916 -.1347 -.1128 -.1022 .9878 .6520 -. 3258 .0000 1.0184 .0184 .5523 0788 ALPHA (4) SECTION PHI 180.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 " ATTO X/LB X/LB X/LB

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				2386.8		.3010	.0:0 .	.0195	1560 1699 3121	1704	1512	1373				
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		1.0460		594.33	}	2040	?	0144	- 0994 - 0994	2599	45148	7511	-1.313B	}	-1.5257	1.0460		. 0332				
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	DEPENDENT VARIABLE	.9210	2348	MACH	DEPENDENT VARIABLE	.1120		0071	0212	0596	2 015.	.0527			. 0952	.9210	900		0507 1322 1855		2615	
3	DEPENDE	.8790	1357	4.234 A	<u> DEPENDE</u>	.0700		.0485	.0201	0309	1.6557	0132			.0503	.8790	4060		15.19 15.19 2492		3729 3825	
		.8210	.3861	#		.0460		.1318	.0624	.0137 .0137	n u 3	.0473			. 0820	.8210		0	.0357 .0357		.3917	.2513
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57.40 D682 .0831 57.40 .1452 2067 F. 9403 - 1136 - 0924 - 0607 14970 .0590 .0075 0/54. -. 0563 -.0789 . i 289 .1537 -.0934 -.1350 -.4852 Ž. .3783 -.1375 .0307 -.0360 -.0940 - 1240 -.0915 -.1360 -.4800 -. 0734 .0852 1,36 .3780 2355.8 .3010 -.1908 -.1806 -.2516 .0006 -. 1586 -.0921 -. 1603 -. 1891 .3010 .0546 -.1197 -.1667 -.5563 <u>182</u> -. 0263 -.3085 -.3118 -.3662 **S** -. 1625 -.3320 -. 31gt -.1860 -.2249 -.4331 -.2968 .035 .0353 5.60. -.0343 -.1679 -.2738 -.3020 -.3988 -.5120 .2040 .0327 .0444 .0788 .0788 -.0819 -.1776 -1.2903 -1.5052 1.0460 1001. .2040 594.33 5 AMES 11-07310A148) -146A/B/C/R ORB FUSELAGE - WEG-.1770 .4286 1.0180 0771. -.0304 -.0639 -.1186 -.2280 -.2150 -.2347 .1662 .0978 . 1992 .9990 .2361 .1660 .0403 .0616 .1124 .0373 .0373 .0188 O O . 1580 .0479 -.0164 -.1302 -.1833 -.2450 .9600 -.2942 -.3121 -.3137 -.2997 14151 DEPENDENT VARIABLE CP .59656 DEPENDENT VARIABLE CP -.0465 -.0893 -.1640 -.1259 -.1245 . 1120 .0588 -.0880 -.1116 -.1543 -.1543 .9210 - 3496 - 3451 - 4003 - 4124 .1120 .0871 .1852 .1758 .1566 .1276 -.0077 MACH TACH .0700 0273 - 0550 - 0550 - 1151 - 1194 - 1430 - 1012 - 1800 - 1913 - 1887 -,4800 -,4759 -,4943 -,3958 -.0818 .0079 .8790 0000 1334 1660 2655 2230 1703 95.2 5.2 8.288 .0741 .0741 .0185 ..0380 ..0870 1 .0460 -.1062 -.0941 -.0373 -.0396 .8210 .2161 .3583 .1441 -.0030 2858 3664 4675 3135 3135 2487 0892 1940. .1709 .0460 û .0442 .0442 .0442 . 3230 .0659 7792 .0230 .4559 .4559 .9529 .5627 .4875 .4017 BETA BETA 110RBITER FUSELAGE 1) OPBITER FUSELAGE .0090 .0165 .6212 رن د : : -.3038 .T290 .0000 - 1312 -. 0353 T. 3≥32 1.00 . 7645 3404 7.990 .0000 9559 8585 8785 8785 8785 .0957 .0957 3000. - 3-B 19:97 SECTION **88**8888888 8335883 5,7

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	(XE8858)			.3010	. 7162	2447	1854				2386.7		.3010	.0673	.0859	1658 1894 4727	2359	8
				.2510	6312	4158	3260				•		.2510	. 0522	.0426	2389 2682 423!	5311	3611
				.2040	4775 7641	-1.5689	-1.9834	1.0460	.0729		.57		.2040	.046!	.0412	. 2402 - 3728 - 3728	7760	-1.5297
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11-073-1	OAB B			. 1660	.3701	.3360	£117	.9990	•	9000 9000 9000 9000 9000 9000 9000 900	o		.1660	.0529	. 0827 7282	0463 0564 0566	1£+£.	.341G
I AMES	-140A/8/C/R		LE CP	.1580			. 5029	.9600	.0734 0116 0228 1107	1851 2560 2010 2761	.59656	ILE CP	.1580					.5212
- 0A14B	-073(0A148) -		IT VARIABLE	.1120	.0136		.0013	.9210	0523 0296 .0946 .0056	1828 2015 1586 0720	MACH	IT VARIABLE	.1120	900	65-1. 65-1.	.060. 5395.	.0274	
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ED PRESSURE	AMES	p		.0460	0570		0396	.8210	-,0460 -,0339 -,1889 -,1889 -,1889	.5326 .2623 0685			. 0460	.2536	. 	. 0358 . 0358 . 0358 . 0358	0372	
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AMES 11-073:04148) -1404/8/C/R 0R8 FUSELAGE

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-.1877 -.1536 -.1747 0784. 1446 3460. -. 0546 -. 0735 Z . 104D 3780 .0253 - 1**64**7 - 1655 - 1641 -. 07C4 2386.7 .3019 .0567 -.23!* -.5:77 -.329 -.0285 - 1443 -. 1667 :X: . 0458 -.3225 -.3150 -.3849 -.0399 -.3817 -. 3024 .0065 -.0938 -.2491 -.2717 -.3517 -.4694 -.6017 .2040 -1.4158 594.57 .1770 -.2289 .0543 .0262 .0343 -.1893 -.1713 -.1714 . 1660 2010 1775. .1580 .59656 4519 DEPENDENT VARIABLE CP . 1120 4.246 MACH . 1476 . 1219 . 0744 - 0370 - 0531 - 0835 .0700 -.0908 .0460 -.0323 -.0013 **3** .0230 .3681 .3681 .3009 .1813 .1806 .1094 0257 .0053 BETA SECTION (1) ORBITER FUSELAGE .0080 .7920 . 1189 .0938 .0000 ALPHA (S) X/18

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				599.88		.2040	2144	4328 4328	2572 3059 3059		8374	9423	1.0460	0.00	.1624				
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AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

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TABULATED PRESSURE DATA - 04148 (AMES 11-073-1)

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TER FUSELAGE 1455	FE3 76	ă 2	TABULATED BETA (2) =	Ω.	PRESSURE DATA - 0A11 AMES 11-073(0A148)	A - 0A148	~ }	÷	073-1) ORB FUSELAGE			(XE8869)	6	PAGE 10	1053
1475 1087 1889 1891 1894 1895 1918 1.046 1.0		FUSE	.		.177 DEFENDEI										
1955 1907 1889 1903 1284 - 1031 1904 - 1001 1889 1903 1284 - 1011 1905 1904 - 1001 1889 1903 1904 - 1001 - 1001 - 100		.7290	0677.		.8790	.9210	.9600	ეგგნ.	1.0180	1.0460					
1.127 2.895 -2.849 -1.1585 -1.1844 -2.896 -2.895 -2.849 -1.1854 -2.896 -2.895		1455 0651	.0424 .1007 .1571	. 1831 . 1889 . 2056	.1087 .0203 0949	. 1244	_	i •							
1.137 3039 4745 -2.201 -1.1650 -1.1891		.0405	.2217	.2895	\$0.0°	1585	# C	3464 2696							
RETA (3) = 4.253		ಪ್ರ	3039	4745		1601	1891								
FUSELAGE 10080 .0230 .09460 .0700 .1120 .1580 .1770 .2040 .2510 .3010 .3780 .9970 .970 .2510 .2040 .0970 .1200 .1120 .1		.1137	3044	.4734	USC1	•	•								
FUSELAGE ODER O COSTO ONGO O TITEO TISEO TITEO	Ģ		-	*			.90190	ø		39.			FN/L	•	6047
-550 - 0.0450 - 0.0710 - 0.1550 - 0.1710 - 0.0710 - 0.0121 - 0.0700 - 0.0400 - 0.0700 - 0.0400 - 0.0700 - 0.0400 - 0.0700 - 0.0400 - 0.0212 - 0.021	11		4GE		DEPENDEN										
	0000	.0080	. 0230	.0460	.0700	.1120	.1580	.1660	0771.	.2043	0185	.3010	.3780	.4970	5740
	.1972	.5044			1022		•	1550		1752		.0736	.0132	.0305	.0307
- 1757 - 1753 - 1762 - 1753 - 1765 - 1753 - 1765 - 1665 -						- 1112		- 1766		- 2050		0484	9200.		.0631
. 1793		.4137				0362 0243 1334	•••	. 1751 1856 0134			7828			0396	
.0934 .0931 .0936 .0			.4281	თ		.2560		.4734			9578	.1136		7510.	
0781193130393372 -1.058886690404 .019								.6031	•	8506	8740	0387		. 0210	
07811491271737663187 .0348 .341607811491271737663187 .0348 .3416135825393159135913592539135913590133073907390739073905992555	•	448g.	0124.	.3481	.3039	.3372	. 7590	.6135	•	1.0588	8669			9410	
07811491271737663187034834161358253931963538109224511358253931963538109224510739050110450649031918370739106809621973095918353555	_	.7290	.7790	.8210	.8790	.9210	.9600		.0180						
13582539319635381092245114940133 .1139 .0397 .074206520135 .1139 .039701357005210501 .10451059105911059110591105911059110591105925552555	•	.0781					.0348		34.16	.2219					
0739 .0501 .104506490319 .1357 1059 .0962197309591835 		\$0.5°					1092		. 2451	.1064					
.0111 .1475 - 2721. 2741. 1110.		.0739						!							
20.00	_	==	. 14.75 14.75	1272	10 to 10 to	2560	2355 -	. 2929							

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4.253

BETA (3) =

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ALPHA (2) =

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			3.5915		5740	0680.	.1080								
			٠		0.6970	.0635	.0504	.0275	0508 0508	0128	0019	. 0049			
			RN/L		.3780	8+00.	.0185	0255	- 0319 - 0849	8800.	.0375	.0427			
			1057.6		.3010	0595	0368		2006	4211	4223	2682			
			•		.2510	1306	1.177	- 5859		9799	8071	9255			
	1.0460		600.78		.2040	1009	1136	- 1058	2105 2545	3531 4611	9627	-1.0950	1.0460	. 1705	
	1.0180		• 600		0771.		•			5923	3039	t	1.0180	.4301	
	ა666.		o		.1660	0876	0985 0857	0085	. 02750. 57515.	.6109	.6444	.5456	0666.		2556 2828 2828
8	0096	573	83	^	8						:	ស	0	8=មិសិ	೯೦೩೦ ೦
띭	Ŏ,	3073	90083	LE CP	.1580						:	31 <i>T</i> .	.9600	. 0530 1271 0066 1272	- 132 - 161 - 154 - 301
IT VARIABLE	. 9210	31233			.1120 .156		0676 0021	8460.	. 2594 . 2594	.2743		.2682	.9210 .960	1 11	11161323 11021610 10521645 08873019
DEPENDENT VARIABLE	•		MACH	DEPENDENT VARIABLE CF			.00210676 .06240021		. 1939 . 1657 . 2244 . 2594	.2145 .2743		•	•	3428 3554 .1695 .0719	1116 1102 1052 0887
DEPENDENT VARIABLE	. 9210	3123	= -3.869 MACH =		.1120	.0075	. 0021 . 0624	1,789		•		. 2692.	.9210	926293428 422893554 2 .1646 .1695 9 .0887 .0719 501030014	1116 1102 1052 0887
	. 01569210	15923123	(1) = -3.869 MACH =	DEPENDENT VARIABLE	0450 .0700 .1120	300. 0830.	. 0021 . 0624	. 2788 . 1788 2965 . 1890	. 1939 . 2244	. 2145. 91		. 2107 . 2682	. 0158. 08790 .0	200926293428 181422893554 .2202 .1646 .1695 .2428 .0887 .0719 .250501030014	413451116 321841102 918541052 10887
	. 8210 8790 .9210	15923123	BETA (1) = -3.869 MACH = .	DEPENDENT VARIABLE	.0450 .0700 .1120	300. 0830.	1115 . 0021	. 2788 . 1788 2965 . 1890	.3159 .1939 .3277 .2244	. 2719 .2145		. 2733 . 2107 . 2682	. 8210 .8790 .9210	.00230777200926293428 0564181422893554 .3529 .0061 .2202 .1646 .1695 .2575 .0824 .28 .0887 .0719 .2575 .250501030014	.0803 .2830 .241413451116 .2953 .27521841102 .0357 .2817 .197918541052 .2585 .3531 .0887
SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE	. 7790 . 8210 8790 . 9210	.273415923123 .2963 .4315	(1) = -3.869 MACH =		.0230 .0450 .0700 .1120	.2158 .0930 .0075	1115 . 0021	. 2788 . 1788 2965 . 1890	. 5279 . 3159 . 1939 . 1939 . 4959 . 7275 . 4959 .	. 2719 .2145		. 3360 . 2733 . 2107 . 2682	. 0158, 0879, 0870,	0777200926293428 0564181422893554 .0061 .2202 .1646 .1695 .0824 .2428 .0887 .0719 .1554 .250501030014	0813 .2532 .241413451116 2.253 .270321841102 0357 .231 .197918541052 .2585 .3531 .0087

1055		3.5915		3740	.087¥	.1109								3.5915		.5740	.0789	1011.	
PAGE 1		•		.4970	.0737	.0607	.0135 .0150 .0056	.0086	.0122	.0148				•		0.64.	.0657	.0518	.0095 .0152 .0157
	6	RN/L		.3780	.0123	. 0262	0284	.0543	.0468	0440				FRV		.3780	.0106	6410.	0269 0090 . 0272
	(XE8B69)	1057.6		.3010	0501	0527	1576 - 1678 -		2430	1950				1057.6		.3010	0566	0962	150017793067
		•		0.05	1259	1887	6595 7211 6902	•	- 9308	- 9578				•		85.	1285	2130	7247 7931 7714
		800.78		.2040	1070	186		11.00 10.34	9728	1.0339	1.0460	.2411 .1378		600.78		.2040	1108	1474	2550 4058 5231
•	ORB FUSELAGE	• 600		.1770					. 1942 . 2406		1.0180	.3151		• 600		.1770			
11-073-1		ø		. 1660	0864	0973 0873	0677 0693 0528	.5477	;	.6194 .5866	.9990	۲ م م ا	2831	o		. 1660	0820	4960	1281 128 1258
(AMES	-140A/B/C	.90083	LE CF	.1580					•	.7631	.9600	.0473 1073 0320 1002	1800 1990 2110 2954	.90083	LE CP	.1580			
- 0A148	-07310A148) -	MACH .	T VARIABLE	.1120		0602 0130	. 0331 . 0641 . 0861	. 25.25.		.2780	.9210	3515 3436 .1166 .0208 0484	1690 1700 1929	MACH .	IT VARIABLE	.1120	!	053 6 037 8	0621 0621 0899
ESSURE DATA		179 MA	DEPENDENT	.0700			¥860.			4422.	.8790	2836 2433 .0969 3038	2801 2797 2314 0747	. 240 M	DEPENDENT	.0700	*000	1.00930 1.0049	4000.1 0000.1 0000.1
ď.	AMES	•		.0460	~	ന വ	. 1861 . 1863 . 2043	.		. 2560	.8210	2025 1811 .1633 .1575	. 2387 . 4245 . 4767	•		.0460	.1016	99	
TABULATED		TA (2)	સ	.0230	. 2239	.3462 3462	.3923 .4024 .4199	3871		.3557	.7790	0713 0555 0216 .0608	5771. 15159. 18385. 18363.	BETA (3)	ų	. 6230		. 2054 . 2552	ពីពីពីពី ពីពីពីពីពី ពីពីពីពីពីពីពីព
		32 BET	4 FUSELAGE	.0000	.6700		.5377			.5675	.7290	.3669 2635	0700 0245 	38 500.	R FUSELAGE	.0090	.6833		.3803
75		- 4.002	1) ORBITER	. 2003	1.205+					1.205¥	.6520	.0541 .0482 2221 1591	1028	· *	1 1 0 R R 1 TER	. 6399	1.1893		
CATE 10 FEB		A_PHA (3)	SECT 10% C	877X		000	35.000 70.000 97.000	120 000 140 000 180 000	151.000 162.000	169.000 174.000	X/LB	PH1 - 600 70.000 90.000 105.000	120.000 135.000 155.000	ALFIHA (3)	SECTION (x/L9	()	ලි. ස්	

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AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

4.006	G BETA (7 = E	7.240										
AGE			DEPENDER	DEPENDENT VARIABLE	PLE CP								
.0080 .0230 .046	<u>\$</u>	8	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	3780	0.64	.5740
.3327 .2181	.218		. 1231	.2136		.4608	₩060.	6890	-1.0133	3362	.0495	.0127	
						.5733	.152¥	9805	7409	-,2294	.0381	. 0082	
.5387 .3537 .2464	•		.2107	.2675	, vo	.5681	·	-1.1049	9417	2507	+0+0 .	₩000.	
0158. 0677. 0657.	.821		.8790	.9210	.9600	0666.	1.0:80	1.0460					
.0569072519700554177435490713 .08552425 .2460093 .0762 .24600403 .0836	1970 1774 0855 0705		- 2563 - 2490 - 2790 - 0780 - 2020	3393 3391 .0719 0306	.0515 0741 0623 1313		.4374 .2883	1097					
. 1843 . 3399	. 3399 . 4455 . 3367	1111	4190 4545 3370 .2064	1.2416 1.2496 1.3076	2335 2433 2433 2952								
976 RETA (1) = -3.869) = -3	.86		MACH =	.89993	ø	• 60(600.24	<u>.</u>	- 1058.8	RN/L	8	.5857
FUSELAGE DEP	DEP	DEP	DEPENDENT	IT VARIABLE	LE CP								
ງ: 09+0· ດຂອງ ດອວດ	. 09	٦	0070	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	.3780	0194.	5740
		•	1085	00.0		0122		0351	0570	0142	.0435	.1198	. 1461
3001	3001	• •	1836 2305 2305	1031		0198		0292	070-	.0032	. 0693	.1182	. 1863
2003 2003 2029	. W.009. . W.009. . W.009. . W.009.		1982 11535	. 1592 . 1665 . 2103		.0363 .0557 .2119		1644 2507	4909 6018 6478	1796 2292 4878	0842 1048 2521	.0036 0109 1512	
. 1651 1651.	159	•	6221	.2093		.5911	26.00	4764	5987	4654	1553	0331	
					.7380	.6130	.2736	9762	6332	5200	1385	0113	

1057				5740					3.5857		.5740	.1536	<u>197</u>						
PAGE 1				.4970	.0100				•		0764.	. 1228	.1036	0169 0216 0.36	00: 8	.0143	#120°		
	66			.3780	1409				FRAZ		.3780	.0487	.0457	1046 0998 1500	0882	0128	٠. 0904		
	(XE8869)			.3010	5032				1058.8		.3010	0196	0374	- 1954 - 1959 - 3094	4795	e774	4937		
			•	.2510	6347				•		.2510	0562	1113	5918 6944 7107	6341	6674	6938		
				.2040	8660	1.0460	. 2594 . 1704		600.24		.2040	0293	3450	-, 1517 -, 2534 -, 3595	8882 -	-1.0328	884 ⁴	0460	7557. 1419
~	FUSELAGE			.1770		1.0180	. 3983		± 600		0771.					15.		1.0180	.4966
AMES 11-073-1	ORB F			. 1660	.5090	0666.	0 24 1	2872	o		. 1660	0064	8/00 0033	0310 0310 0208	.5317	. 5923	.5497	0656.	
_	-140A/B/C		LE CP	.1530		.9600	.0652 1037 0091 0948	1602 1970 2021 2872	.89993	LE CP	.1580						. 7238	.9600	. 0594
- 0A148	-07310A1481 -		T VARIABLE	.1120	. 2062	.9210	3563 3316 .1355 .0405	1492 1573 1437 1064	MACH =	T VARIABLE	.1120		.0743	.0525 .0764 .0956 .1715	. 1992		.218t	.9210	3+69
URE DATA		. 869	DEPENDENT	.0700	.1307	.8790	1982 1952 .1189 .0372	2063 2509 2148 0127	182 MA	DEPENDENT	.0700	1169	1334	. 0338 . 0338 . 0359	+60:		.1355	.8793	1950 1946
ED PRESSURE	AMES	.3.	_	0940.	. 1902	.8210	- 1139 - 0952 - 1633 - 1436	.3187	ti		.0460	. 222°	8719. 00.45.	. 22:61 . 17:51 . 1873	.1579		. 1634	.9210	:22: 0957
TABULATED		TA (1)	35	.0230	6715.	.7790	.0338 .0308 0454 .0241	.1262 .1331 .1177 .1185	TA (2)	AGE	.0230	. 3662	. 3851 . 44.35	. 3339 . 3339 . 3339	3745		.2360	7730	.0069 .0259
		75 BETA	PUSELA	. 0080	.4231	.7290	.0972	1904 0531 0444	78 BETA	FUSEL	. 6093	.8115		7564.			.4:83	.7293	8 080 .
φ		= 7.975	I 1 CRRITER FUSELAGE	. 0000	1.1659	.6520	1357	2934 1341 128	= 7.978	1:C=31TER	0000	1.1719					1.1719	.6523	000
833 0: 314C		Hd T	SECTION (8	PHI 150.003	x/LB	100000 000000 000000 11 000000 11 000000	199.000 199.000 199.000 199.000 199.000	3	SECTION (81/x	PH1 .003	20.000 40.000	10.000 10.000 10.000 100.000	140.000 150.000	00000000000000000000000000000000000000	174.353 180.033	¥7.5	500 500 7 0 6 3

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TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1 .

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

					3.5857		97.0	.1427	.1635							
					•		4970	.1224	t. 1997	0339 020: 0109	. 0130	.0153	CFOF.			
					3 FRV/L		.3760	3440.	. 0243	1064 0835 0871	0407	0776	0878			
					• 1058.8		3010	0251	1088	1961 1802 2746	4647	4533	4863			
					<u>.</u>		.2510	0565	1613	6629 7647 7053	6536	6862	7113			
		1.0460			600.24		.2040	0365	0902 0902	2054 2054 4753 4753	6543	-1.0347	8776	1.0460	.2584 .1192	
		1.0180			• 60		.1770				Ġ	. 150 150 150 150 150 150 150 150 150 150		1.0180	.5034	
		າ666.	- 3507	- 2843	0		. 1660	0105	0314	0894 0915 0830	9434.	5492	.5360	0666.		3527 2759
	RE CP	.9600	0478 1169 1810	2007 2223 2194 2824	.89993	RE CP	.1580						.6 94 2	.9600	0607 0797 0665 1379	- 2430 - 2549 - 2641
	DEPENDENT VARIABLE	.9210	.0793 0145 0878	2109 2083 2189 2138	mACH =	DEPENDENT VARIABLE	1:20	:	.0203	. 0110 . 0299 . 1263	. 1692		£02·	.9210	3280 3105 0544 1395	2685 2720 3241
. 182	DEPENDE	.8790	.0452 0468 1504	3493 3416 2775 0925	4.241 M	DEPENDE	0010	1660.	.0769	.0017 0017 0036 0319	. 0605		.1270	.8790	2006 1973 0149 1224 2601	4531 3935 3394
		.8210	.0781	.0911 .2733 .3671	#		. 2460	.2141	1884	.1151 .0870 .0903	.1355		.1509	.8210	1255 0963 0187 0035	.0391 .2789 .3296
BETA (2)	IGE	.7790	0956 0189 .0572	.0658 .1164 .1393 .1385	BETA (3:	AGE.	. 0230	. 35 4.	. 325 3409	.3036 .2764 .2757	.2370		93 4 0	96:1:	. 00000 - 00000 - 00000	-, 0292 . 0868 . 156
	1) ORBITER FUSELAGE	.7290	6039 4465	1957 0839 0368	919 626	TH FUSELAGE	0000	. 7933		.3341			3908	.7290	. 8753	2053
7.978	110RB1TE	.6520	3063 2454	1146 1146 0857	2.7	1) QRB1 TER	000	1.1559					. 1569	.6523	0.00 ± 0.	:+30
A. 2HA (4)	SECTION (X/LB	£588		4. 1 8년 (구.)	SECTION (B 7/2	FН; . GGB	00	18 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	00	ល ្យ ។ ⇔ក់ លើយ៉ា សាប់លេយ	1 7 ()	a) ×	00000 00000 00000 7 0000 7 0000 0 7000	90 30 00 00 10 00 br>10 00 br>10 00

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PAGE 1059	_					FN/1 - 3.5793		0.4970 57240		0115. 1771. 17	2555. 38TI. OT					P0379	. 0081									
	(XEBBEB)					1058.5	•	3010		.0528 .0971	.0635 .1170		25631710 55154222	- 5084		55722014	55512009									
						•		9150	 	. 0253	+010.		5576 6691	·		5943 -	6112 -									
				1.0460		600.36		. 2040		.0511	.0533	0589	1389	3789		8726	7100	1.0460		.2684	. 1689					
	FUSELAGE			1.0180		# 60		. 1770							5. 25. 4. 5. 65. 4.			1.0180		.5439	4259					
11-073-	ORB			ე666.		ø		. 1660	1	.0767 .0843	.1180	. 0549	. 1943 . 1943	.5711		.5808	.4716	. 9990					3627	1750		
0A148 (AMES 11-073+1	-140A/B/C		LE CP	.9600	2919	.90010	ני כף	. 1580									.6998	.9600		.0463	- WEB	1163		23155 - 23377	8++2	
			DEPENDENT VARIABLE	.9210	3332	MACH =	T VARIABLE	.1120		.1351	. 1952 . 1502	.1526	. 1426 8541.	.1467			.1533	.9210				0598			- 2239	
PRESSURE DATA	AMES 11-073(0A148)	4.241	DEPENDEN	.8790	1892	-3.853 MA	DEPENDENT	.0700		.2345 .2345	.25537	. 1853	.0541	.0381			.0466	.8790				- 1279 - 2483				
	AMES	H		.8210	.3308	п		.0460	77.4	. 3585	. 3623	5972	1474	.0537			.0845	.8210				91901		. 2063		
TABULATED		BETA (3)	H H	0677.	.1199	BETA (1)	ود	. 0230	Ç	540. 1646.	.5692	.4965	.2980	.1712			.0920	0677.				0362		.0377	.0:12 0353	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			P FUSELA	.7290	0423	ь	R FUSELAGE	. 080	1770	t .		5,527)))				.2516	.7290		8651	.727.	. 5584	940	n	m (1) (1) (1)	
3 76		= 7.979	1.OPBITER FUSELAGE	.6520	0898	= 11.95	1 J CPB L TEP	. 0000	1014	:							1013	02591		.2118 orse	,	,	3750		. 24.16 	,,,,
DATE 13 FEB		A_PUA (4)	SECTION (K/LB	PHI 165, 200 180, 000	A_PWA (51 :	SECTION C	X/LB			55.000	ສຸດປະຊຸດ ຕຸດປະຊຸດ ຕຸດປະຊຸດ	180.000	150.000	155.000	169,000	1.30.030	G: 1/x	lin 3		'	1 000 000 000 000 1000	ł		កាត់ កាត់ កាត់ កាត់ កាត់	

	3.5793		5740	1415 145 145	3.5793		04.e.	. 2115 2133
	•		0764.	. 1588 . 1588 0736 1367 0355 0355	٠		.4 9 70	.1134 .1154 1845 0805
1691	5 ROVE		.3760	. 1061 	PSN/L		3780	. 1605 . 0377 . 2303 . 2035
(XE8969)	1058.5		3010		: 055.8		.30:3	.0394 .0749 .2052 .2057 .2057 .3564 .3564
	• a		.2510		•		5165.	. 595
	600.36		.2040		.36		.2040	. 0102 . 0102 . 0542 . 1756 2846 5846
FUSELAGE	• 600		.1770	.1716 .1901 .1.0180 1.0180	= 600.36		0771.	
08B	o		. 1660		ø		. 1660	.0669 .0253 .0110 .1054 0762 0815
-140A/B/C	.90010	SLE CP	. 1580	. 6661 . 9500 . 9500 . 1256 1363 2331 2331 2331	01006.	LE CP	.1580	
-07310A14B)	MACH	I VARIABLE	.1120	. 1280 . 0384 . 0788 . 0868 . 1252 . 1505 3310 3310 3310 3310 3310 		VARIABLE	.:120	. 1020 . 0718 . 0759 . 0333 . 0333
AMES 11-0731	.189 MA	DEFENDENT	.0700	2866 1914 1914 1916 1920 1930 1930 1930 1930 1930 1930 1930 193	.260 MACH	DEPENDENT	.0700	. 1763 . 1763 . 1746 . 1746 . 1769 . 1799 . 1799 . 1799
EN CO	•		03+0	33.87 33.87 33.47 33.47 1868 1.1837 1.1837 1.001	÷		.5460	8.00.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.
	BET4 (2)	rce rce	.0230	1812 1813 1914	m -	ACE	3850	######################################
	. 955 Bi	ORBITER FUSELAGE	. 0080	. 9330 . 7293 . 7293 . 7293 . 7293 . 7293 . 7293 . 7293 . 7293	ii or	9 FUSELA	ຕ ຕ ຕ	. 9165
	o	=	. טממם	8		:3.1880()	0 0 0 0	9 8 1:
	FURTHER C 50	1.011030	รา/ x					

	(XE8959)
TABULATED PRESSURE DATA - OAIWB (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C 0RB FUSELAGE
047E 10 FEB 76	

4.260

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PAGE 1361

		of lo													
		0084	9000-	3210.	5072										
		.3780	1957	2277	- 6922 -										
		.3010	5310	5532	5634										
		.2510	6090	6161	5855										
		. 2040	6258	9325	6696	1.0460		327.5							
		0771.		.1138		1.0180		25.5	1200						
		. 1650	.4451	5255	.5052	0666.					- 350B	2872			
	R CP	.1583		į	.6355	.9500		.0489	1620	1546			2764	- 2933)
	DEPENDENT VARIABLE CP	.1120	. 1283		.1539	.9210		3397	1 + 10 -	1255	2047		/ 2007 · -		
)	DEPENDEN	.0700	0158		.0429	.8793		- 1559	- 1432	2879	\$/\$\$.I	5052			
		. n46a	. 0+95		.0520	.8210		0555	0858	- 1329	0652	0415	3376) ;	יוטטאי
	10E	. מפשם	. 1302		.1176	0677.		.0703			1382	0508	0.00 0.00 0.00 0.00	. 0960	0.110
	: CPB:TEP FUSELAGE	0800.			. 2229	.7290		.1637	7239			2829	1417		- 0035
	 	0 0 0			:061.:	.5520		5635.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3359		9861	184	- : 3.35	1
•		er J	1 c c c c c c c c c c c c c c c c c c c	2000 2000 ((((((((((((((((((((((((((((() (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	a;	1	D CO	7 (1)		(*) (*) (*) (*) (*) (*) (*)				i i

(XEE870) (05 336 75)

ANE 1 1-1-141481 -140A/B/C CRB FUSELAGE

	SPDBRK = 55.000 L-ELVN = -10.000 MACH = .600	RN/L = 4.8517		0475. 0764. 0	707150894	1 '563 1639	3 . 1066 3 . 0912 5 . 0912		0122	033!			
PARAMETRIC DATA	.000 SPD 22.500 L-E -10.000 MAC	• 2387.0		.3010 .3780	TTT0 1T60	20371710	0054 .0619 0379 .0358	- 1039 -	12860530	13310715			
	RUDDER BOFLAP R-ELVN	۵		0.25.0	731318	392739	141386 151636 11833		02388	22338		on	
		594.81		0405. 0771.	1573	3359	- 1304		2535 9430	-1.1802	80 1.0460	.3196 .0810 .2171 .0545	
		•			ស្ត	2 CH 14	34.24		• •	r	0810.1 06	• •	២០
		0		. 1660	1813	3682	0424 0111	.5624	.5674	.3627	.9990	!	1.3043 1.3044 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3044 1.3043 1.3044 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3044 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3044 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3043 1.3044 1.3043 1.
		.59656	BLE CP	.1580						. 6999	.9600	0012 1170 0364 1054	1310 1420 1220 2689
	ָרָיי <u>ָ</u>	* :5	. 'ARIABLE	20			. 1381	.3461		.2886	.9210	1681 1771 .1300 .0386	0767 0460 0385 0043
						- 2994		.3429		.2846	.8790	2102 2601 .1735 .1031	0808 0694 0648
		#		₹.	2186	2276	3295	.4192		.3505	.8210	2615 2643 2533 206 .2006	.5040 .5040 .3469
TA	XMRP YMR- ZMRP	BETA (1)	AGE	. 0230	2191	.0226		.5684		4364	.7790	-,2090 -,2275 -1423 -,1835	.3052 .3052 .2976 .2351
REFERENCE DATA	\$0.FT.		TR FUSEL	.0080	.1300		.7322			. 7967	.7293	-, 1625 -, 1646 -, 0894	.1143
REFE	2630.6330 474.8303 936.0680	1 = -3.949	SECTION (1) OPBITER FUSELAGE	.0000	1.00.1					1.00.1	.6520	1356 2330 -0483 -0705	#140 #140 #150
	SPEF # 1PEF # SCALE # SCALE #	ALPHA (1)	SECTION :	X/LB	PH1 .000 20.000	43.000 55.000	73.000 93.000 180.000	: 100. 100. 100. 100.	155.000 165.000 169.000	180,000	X/LB	PHI 600 70.000 60.000 60.000	្ត្រីក្រុង ស្ត្រីក្រុង ស្ត្រីក្រុង ស្ត្រីក្រុង ស្ត្រីក្រុង ស្ត្រីក្រុង

-. i 227 5740 -.0762 4.8517 5750 -. 0888 -.0781 PAGE 1063 £.8517 -.0546 4970 -.1100 .0850 .0714 .0398 0540 0225 .0090 -.6750 0:64. .0576 .0460 .0144 -.0511 PS L Z .3780 -. 0629 -.1160 .0311 -.0333 -.0212 -.0269 ...780 -.0572 -.0762 (XE8870) 2387.0 2387.0 -.0373 -.0738 -.1962 -. 1420 .3010 -.0856 -. 1010 -.0972 . 0894 -.0753 .3010 -.0975 -.0702 -.1034 -.2481 -.2145 -.1853 -:2181 -.2342 . 85 6 -.2714 -.1174 -.2105 -. 1996 -.2570 -.2570 -.2892 .85 -.1600 -.1107 -.1411 -.1720 -.2719 -.1975 -.2768 -.2769 -.2709 .2040 -1.1479 -. 9262 1.0460 .2040 594.81 594.81 ORB FUSELAGE .1770 1.0180 .3521 .1770 -. 1652 -. 1991 -. 3027 -. 1795 -. 1095 -. 1038 . 1660 5009 .9990 . 5596 -.3351 4651 -. 1620 -. 1835 -. 2478 -. 2049 -. 1774 -. 1240 O .1650 ø AMES 11-073(0A148) -140A/B/C -.1743 -.1762 -.1487 -.2678 -.1110 -.0548 -.1281 .9600 DEPENDENT VARIABLE CP .7071 .59666 . 1580 EPENDENT VARIABLE CP .1120 -.2625 -.1567 -.1567 .0073 .0386 -.1719 -.1748 .0937 .0010 .9210 .3136 -.1331 -.0964 -.0854 -.0833 .1120 MACH 22.15 22.51 17.31 17.51 10.52 1388 MACH .0700 -.2115 -.2473 -.2645 -.0635 -.0593 .0593 .2509 -.2168 -.2701 .1257 .6*62 -.1519 -.1302 -.0999 -.0765 .3190 .8790 -3.843 . משכם 189 -.1883 -.1919 -.1959 -.0022 .1288 .2145 ..2712 ..2842 .2059 .2059 .2268 .8210 .4037 .4130 .4645 .4319 4431 .0460 -.1790 -.1588 -.0503 -.0503 -.0431 (i) -.1842 -.1699 .0074 .3376 .4288 .5274 . 0230 -.2038 -.2169 .1053 .1468 5414 .4762 .3083 .3083 .3031 .2699 .7790 1.1838 1.1838 1.0830 1. . 0230 BETA SECTION (1'OPBITER FUSELAGE SECTION (1) DEBITER FUSELAGE .0380 . 1596 .7260 .7290 .0124 .0572 -.1604 . 1053 1314 1111 .080 . 1651 .4450 -3.933-3.929 .0000 -.1305 -.2045 -.0187 1.0480 .6520 .0480 1.0562 20.000 40.000 55.000 70.000 160.000 150.000 157.000 165.000 165.000 165.000 ALPHA (1) .000 40.600 70.600 90.667 105.600 125.600 135.600 155.600 155.600 156.000 166.000 20.000 40.000 54.000 54.000 75.000 X/LB ä X 7.3

..0101 -.0369

BETA (3) =

-3.929

ALPHA (1) =

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SECTION (110RBITER FUSELAGE	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
יירם	.0000	. 0080	.0230	.0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
PH1 140.000 150.000 151.000			.4801	.3600	.2648	.2781		.4093	.0307	3545	2492	0916	0262	. 0209	
169.000 169.000								. 5236	. 0921	9253	1998	0913	0241	. 0238	
180.00	1.0552	.7186	. 4866	.3662	.3330	.3314	. 5882	.5113	•	-1.1323	1832	0840	~.0215	.0261	
านย	.6520	.7290	.7790	.8210	.8790	.9210	.9500	0666.	1.0180	1.0460					
PH1 - 000 - 000 - 70.900 90.000 105.000	-: 1558 -: 1554 -: 0000 -: 6750	1576 0164 .0293	2055 2103 0684 .1397	2675 2744 .1617 .1519	2184 2713 .0876 0071	1773 1894 .0623 0367	0024 0776 0724 1432	į	.2390	.0921 .0244					
120.000 135.000 155.000 165.000	.040 .0579 .0598	.1263 .1379	.1979 .2659 .2818 .2737	.4680 .4853 .4853	2569 2114 1621 0199	2067 1512 1608 1648	2295 2110 1949 2658								
PHA (1)	= -3.935		BETA (4)	.F	.269 MA	MACH	. 59666	σ	• 594.81	.8	•	2387.0	RN/L	•	4.8517
SECTION (11GFBITER FUSELAGE	R FUSELA	<u>ن</u> ود		DEPENDENT	IT VAPIABLE	R CP								
'LB	0000.	.0000	.0230	. 0:∙60	.0700	.1120	. 1580	.1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740
PH1 .000 20.000 40.000 55.000	1.0258	188 T.				2065 2039 2006		1667 1665 2149		- 1445 - 1473 - 1897	1153	0824	0620 -	0509	0823 0683
70.000 90.000 80.000		.2764				- 1347 - 1518 - 0240	• • •	2393 2763 1918			2425 2953 3374	0870 1242 2949	0097 0260 0764	.0303	
			. 3995	. 2961	·188t	.2010		.2930	1095	. 5.43 . 5.40 . 5.403	2437	1178	0513 -	0093	
							.6303	. 4605		9423	2023	. 19	ე⊬02	.0038	

1055				.5740					4.6517		5740	0989	0491						
01 30× a				.4970	.0076						0.64	9290.	.0522 -	.0339	. 3 6 6	99 +0•	C -08		
	6			.3780	0317				FN/L		.3780	0797 -	- 15+0	0170 0339 1275	- 1002 -	0857	0747 -		
	(XEBB70)			.3010	- 6860				2387.0		.3010	1010 -	- 9290	0961 1382 3547	.1570	.1498 -	1394		
				.2510	2010						.2510	- 1379 -	- 2711.	261032093937	. 2734 -	- 2242.	2361 -		
				.2040	-1.1256	1.0460	.0053		81 P		.2040	- 1545	1774 -		5247 6357 -	- 8786.	-1.1428 -	.0460	.0720
~	FUSELAGE			.:770	ī	1.0180	.2324 .2324		= 594.81		.1770	•				- 1716	7	1.0180 1	.3198
11-073-1	ORB FI			. 1660	.4866	. 9990		2754 2754	ø		. 1660	1837	1937	2776 3484 3415	.1436	.3703	. 3879	1 0666.	
(AMES	-140A/B/C		LE CP	.1580		.9600	0048 0697 0864 1526	2816 2526 2371	59666	E CP	.1580	\$ 1				i		.9600	0037
- 0A14B			T VARIABLE	.1120	.3136	.9210	1727 1949 0388 0615	2199 -		VARIABLE	.1120	2067	- 1941	1865 2315 1012	. 1 368		.2798	.9510	1738 -
URE DATA	AMES 11-07310A1483	4.269	DEPENDENT	.0700	.3191	.8790	2177 2785 0475 0505	3673 3083 2665 1254	34 MACH	DEPENDENT	.0700			1877 - 2093 - 1191 -	. 0928		.2736	.8790	2183 - 2693 -
ED PRESSURE	AMES	t u	J	.0460	.3569	.8210	.2655 .2653 .1213 .1041	.1378 .3450 .4874 .4571	= 8.334	۵	.0460			1507 - 1377 - 0039 -	. 2 062		.3192	.8210	. 2620 -
TABULATED		TA (4)	ы	. 0230	.4775	.7790	2003	.1086 .1970 .2250 .2539	(S) ¥.	Ų.	.0230			- 00099 - 0509 - 5181	.2873		.4307	.7790	. 2051 - 649:
		35 BETA	R FUSELAG	. 0080	1269 .	.7290	.1576 .0412 .0050	.0220	9 BETA	FUSELAGE	.0080	- 1289 -	1 1	+360.			.6191	.7290	1761 -
5.		= -3.935	1.10RB17ER	. 0000	1.0358	.6520	- 1306 - 1557 - 7810 - 7810	.0351 .0405 .0414	-3.94	1 JORB: TER	.3000	.986					.9958	.6520	1001
DATE :0 FEB		ALPHA (1)	SECTION (X/LB	PHI 190.000	X/LB	PHI - 000 70.000 90.000 105.000	155.000 155.000 155.000 165.000	ALPHA (1) =	SECTION C 1	X/LB	PHI . 000 20.030	40.000 55.000	70-885 170-885 170-885	150.000 101.000	169, 650 169, 650 189, 650	180.00	XVEB	PH1 .000 .000

AMES 11-0731041481 -1404/B/C ORB FUSELAGE

BETA (5) .

ALPHA (1) . -3.949

DATE 10 FEB 76

			4.8452		.5740	0356	0534							
					0.4970	0306	0727	.0503	0489	64 50	0589			
			+ RN/L		.3780	0562	0803	.0329 .0121 0628	0808	0841	0884			
			- 2386.4		.3010	0777	- 0660	0232 0557 2142	1526	1633	1599			
			•		.2510	1045	1589	1289 1614 2254	-, 3969	2893	2630			
•	1.0460		593.97		3402.	1251	2123	0963 1605 1781	4585	-1.0997	-1.3362	1.0460	.0901	
	1.0180		29		.1770					¥161.		1.0180	3746	
	ე666.	2745	ø		. 1660	1402	2279	. 0245 . 0245 . 1764	.5132	.5106	.2903	0666.	3146	B/C)
RE CP	.9600	0900 1601 2043 3074 2903 2859	. 59628	RE CP	.1580					c u	0900	.9600		1661 1445 1445
DEPENDENT VARIABLE	.9210	.0138 0904 1508 3524 3630	MACH =	DEPENDENT VARIABLE	.1120	1986	1644	.1286 .1643 .2843	.2651		.2123	.9210	1637 1637 .1353 0196	0819 0700
DEPENDE?	.8790		-7.888 M	DEPENDE	0020.	1469	1343	1982 1982 2250 2879	434.2.		. 1993	.8790	1936 2398 .1699 .1040	1211 1211 1420
	.8210	. 0989 . 0605 . 0816 . 1805 . 1805 . 3484) = -7.		. 0460	1195	0458	. 3505 . 3505 . 3505 . 3935	. 3083		. 2637	.8210	2256 2393 .2511 .2736 .3991	. 553 . 4596 . 2659
IGE	.7790		BETA (1.)	VGE.	. 0230	0716	. 1960	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4558		.3257	2677.	1606 1651 1021 1449 777	7.555 1.575 1.75 1.75 1.75 1.75 1.75 1.7
R FUSEL/	.7290	0338 0338 0345 0505	38 6+D	TR FUSEL	ເຍບລາ	3154		. 7355			.5797	. 7290	1104 0257 .0249	3316 .0558
1) ORBITE	.6520	0393 0176 0281 0262 0203	٠	11099]TER FUSELAGE	000	1.0360					0300	.6520	0734 1306 0572 0193	0536 01 <u>9</u> 0
SECTION (1) ORBITER FUSELAGE	X/LB	74.1 70.000 105.000 115.000 115.000 115.000 115.000 115.000 115.000 115.000 115.000 115.000 115.000 115.000	ALPHA (2)	SECTION (X/LB	PH1 .000 20.000	10000 mm	90.000 90.000 90.000	150,083		160 C91	n de X	740 - 04 - 740 - 04 - 04 - 04 - 04 - 04	ទូម៉ូសូ

1057						į	9.04.04	Š	27/0	0204	0391														
PAGF						(,			0151	0445	22.50	.0287	0108	0147	0199	9	8							
	370)					i		2002	90/6.	0395	0492	21.00			0480	0533	10850								
	(XE8B70)					3020		5		0582	0656	- 0613			- 1310	1347	. 1241								
						•		5.50		0881	1171	-, 1792	- 2143		· ± 56.	2538	י משמי								
				1,0450	3	593, 97		0402		1073	-1700		433		- 5048	. 0800	-1.3059		}	.0915	.0407				
	ORB FUSELAGE			1.0180		* 597		.1770							1034	7	ī	1.0180		.3530	. 2966				
RESSURE DATA - DAITR (AMES 11-073-1				. 9990		a	ı	. 1660		1245	1870	0721	0656		-400c	.5015	.3958						3261		
A CAMES	-140A/B/C		KE CP	.9600	2668	.59628	LE CP	_									.6593	.9600		.0160	138 27	1236		1903	.2619
1 - 0AI4			DEPENDENT VARIABLE	.9210	0237	MACH	T VAR1AB	.1120		1627	1333	.0514	.0718 .2195	25,22			.2418	.9210				0037		1202	
SURE DATA	3 11-073(0A148)	-7.888	DEPENDEN	.8790	.1386		DEPENDENT VARIABLE	.0700		1269			. 1258 . 21 16	BPCC.			. 2229	.8790				- 8240.			
a.	AMES	n		.8210	.2825	± -3.864		.0460		0872			.3146	7462			.2575	.8210				.2180 .2983 -		- 2714.	
TABULATED		BETA (1)	ii S	.7790	.1949	BETA (2)	'n	. 0230			. 1656			.4321			.3567	0677.				1121 1441	. 2238	. 2553+	.2353 2215
		38 640.	1) ORBITER FUSELAGE	.7290	.0326	056 BE	R FUSELAGE	.0080		.3504			c 100.				.5870	.7290		. 1054	1 490	.0069	26+0∶	.0900	-1897
3 7.		0.	1 1 3RB 1 TE	.6550	0249	0.	1) ORBITER	.0000		1.0699							.0599	.6520		. 0545 . 1855	•	1	. 0201	. 3:93	.0098
DATE TO FEB		ALPHA (2)	SECTION :	X/LB	PHI 165,000 180,000	ALPHA (2)	SECTION (X/LB		- 000 - 000	22.000 22.000	מנים מים מים מים מים	120.000	150.000	151.000 162.033	169.000	180.000	x/LB		- 000 - 000 - 000			180.000		

1069				276.5								,	0025	82,6	.0052			
PACE				407	0210	0.0170	010				•		0254	.0309	0285		0554	0589
	370)			1780	1460-	0572	0543				FWA		3780	2626	0323 -	0463 0399 -	•	0937
	(XE8870)			2010	<u>.</u> 35	- 1381	1224				2386.4		.3010	- 1670	- 6950 -	1352		1548 -
				0182	2872	2394	2298				• •			1029	- 9511	2619 3071 3704	4994	2664
	4.4			0402.	4808 6176	-1.0796	-1.2869	1.0460	.0111		593.97		.20%0		- 1589 - 1589		5502 6809	-1.0977
	OFF FUSELAGE			.1770	1420	2180		1.0180	.356. 3755.		593		.1770					2352 2352 -
AMES 11-073-1				. 1660	. 2693	9114.	.4195	.9990	1	3426 2692 	o		. 1660	1415	1526	2467 2928 2795	.1237	.3184
_	-140A/B/C		BLE CP	. 1580			oca Ca	.9500	.0091 0530 0887 1582 2081	- 2486 - 2544 - 2415 - 2649	. 59628	ונב כם	.1580					200
A - 04148	(0414B)		CEPENDENT VARIABLE	.1120	.1576		8J#5.	.9210	1559 1851 . 0302 0720	2639 2335 2656 2780	MACH =	I VARIABLE	.1120	90	1.1.82	1495 1712 0719	.0623	
RESSURE DATA	27ES 11-073(0A148)	4.251	CEPENDE	.0700	.1204		.2307	.8790	1699 2496 .0338 0558	3456 3263 3055 1729	8.306 MA	DEPENDENT	.0700				. 0283	
DL ()	11.54			.0450	5155.		.2620	.8210	2203 5203 -1012 -0996 -0958	.3327 .3887 .3922	æ •		.0460			1081 1055 0014	.1340	
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		950 8	110PBITER FUSELAGE	. 0090			. 5633	.7290	1081 1081 0531	0013 .0641 .0851	051 BE	R FUSELAGE	.0383	.3019		.0391		
D				. 0000			1.0588	.6520		0268 .0101 .0106		1 JOPBITER	0000.	1.0061				
מו ה		A.FHA (2)	SECTION :	X/LB	PHI 140.000 150.000 151.000 152.000	165, 360 169, 000 17*, 000	180.000	X/LS	PH1 - C50 - C50 - 7-0-000 - 000-000 - 105-000	120.000 135.000 150.000 165.000	ALPHA (2)	SECT10% (X/LB	000.	*0.079 55.660	70,555 93,000 120,000	150.000	162.000 155.000 169.000 174.000

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AMES 1. -073(0A148) -140A/B/C ORB FUSELAGE

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BETA (5) =

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SECTION ((1) ORBITE	1) ORBITER FUSELAGE	AGE.		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	0000	.0080	. 0230	. 0460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
PH1 180.000	1.0051	906±.	.3146	. 2200	. 1806	.2006		.3213	•	-1.2897	2728	1602	0987	0545	
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460					
PHI .000 .000 76.000 90.000	0727 0556 1231 077	1081 1357 0760	1590 1413 0485 0083	2299 2155 .0636 .0497	1913 2564 0013 1115	1583 2038 .0064 1062	.0015 0701 0973 1709		. 2092	.0003					
150.000 150.000 150.000 160.000 160.000	0516 0375 0511	-,0376 .0010 .0235	.0385 .1022 .1213 .1231	0472 .1477 .3777 .2866	4647 4531 4521 3200	3353 3125 3681 3815	2981 2994 2981 2799	3248 2762							
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SECTION (110PBITER FUSELAGE	R FUSEL	AGE		DEPENDENT	NT VARIABLE	BLE CP								
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AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

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	ABLE CP	.9690	0329	1816 2270 1916 2556	.59630	BLE CP	.1580					į	140.	.9600	.0415 0326 0562 1400	1908 2257 2069
	DEPENDENT VARIABLE	.9210	.1127 .0074 0591	1667 1754 1637 1416	MACH =	NT VARIABLE	.1120	0.057	. 0295 7895 7895	.0050 .0097 .0050	. 0955		. 1061	.9210	1201 1356 .0676 0384	0963 1965 1961 2108
-3.860	DEPENDE	.8790	.1287 .0598 0244	7.2250 7.2513 7.2519 7.0317	. 181 .	DEPENDENT	.0700	.0655	.0752	.0377 .0266 .0259	.0372		. 0662	.8790	1310 2100 0728	0916 2339 2626 2624
.i.		.8210	.1910 .5203 .3400	.3277 .1652 .0814	# 5		.0460	1417	1560	1252 127 1890	3170.		.0681	.8210	1335 1309 .1339	. 1939 . 1939 . 4076
BETA (8	AGE	.7790	0123 .0372 .0728	.1703 .2103 .2090 .1840 .1680	BETA (3	7OE	. 0230	. 2595 7735	3349	2913 2684 2267	.1707		.1304	.7790	0468 0326 0459	10899 17471 17471
7.955 8	1:ORBITER FUSELAGE	.7290	1929 1325	0646 .0283	955 8	ER FUSELAGE	. 0080	.6789		.3504			.2794	. 7290	. 22 2. 23 2. 23	0302
ti	11980:10	.6520	3385	8132 0779 0596 0546	. 7.	110RBITER	.0000	1.3281					1.0281	.6520	.0655 .0745 3195 2267	1406
ALPHA / L	SECTION	87/x	PH: 13,000 95,000 105,000		(५) अस्तीय	050110N C	X/LB				20:	169.000 169.000 169.000	ະເສ	x 'L9	000.04 000.04 000.004 000.00	145,000 170,000 170,000 170,000

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						TAN T		.3780	.0420	. 0098	1175	0619	0617	0740			
	(XE8870)					* 2386.4		.3010	.0105	0307	1729	1554	1393	1476			
						٥.		.2513	0113	0845	2938 3505	3546	2861	2762			
				1.0460		3.97		.2040	0235	0988 0988	1.255 1.3497 1.3497	5655	-1.3088	-1.5059	1.0460	. 0296	
•	FUSELAGE			1.0180		± 593		.1770				2017	2017		1.0180	.4195 .2742	
AMES 11-073-1	ORB			3666.		O		. 1660	0192	0351	1530 1597 1751	. 2233	.3232	. 2983	9990	7 1 1	2745
-	-140A/B/C		LE CP	.9600	2366	.59630	JLE CP	.1580						.5038	.9600	.0321 0443 0867 1640	2540 2540 2576 2642
1 - 0A148			IT VARIABLE	.9210	2193	MACH .	I VARIABLE	.1120		0121	0799 0633 0602	.0560		0660.	.9210	1188 1595 .0247 0780	-, 2406 -, 2479 -, 2865 -, 3029
SURE DATA	AMES 11-073(0A148)	ié.	DEPENDENT	0628	1202	4.234 M	DEPENDENT	.0700	. 0445°	.0293	0216 0519 0518	6107		.0516	.8790	1322 2201 .0321 0730	3171 3539 3688 2380
ED PRESSURE	AMES	•		.8210	.3950			.0460	. 1304	.1155	.0381 .0128 .0153	8850.		.0604	.8210	1393 1297 .0805 .0505 .0796	. 1287 . 2811 . 3887
TABULATED		BETA (3)	SE SE	.7790	. 1663	BETA (4)	GE	.0230	.2431	.2395	. 1896 . 1580 . 1631	.1229		. 1292	.7790	0363 0378 0113 0113	.0581 .1483 .1584 .1487
			110RBITER FUSELAGE	.7290	01+10		R FUSELAGE	.0080	.6519		3¥81.			.2539	.7290	.0150 2461 1552	.0130 .0399
io io		- 7.955	110RB1TE	.6520	0345	= 7.955	1) ORBITER	0000.	1.0108					1.0108	.6523	.0693 .0693 3253	1142 0389 0525
DATE 10 FEB		A: PHA (4)	SECTION (X/LB	PH1 165.000 180.000	ALPHA (4)	SECTION (X/LB	PH1 . 000	20.000 40.000	55.000 70.000 90.000		157.000 155.000	180.030	ы 1/ х	000.04 000.07 000.07 000.09	000 000 000 000 000 000 000 000

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	a .		.2510	0256	1669	3040 3087 3593	3245	2937	3160				a		.2510	. 0525	.0452	2599
	593.97		.2040	0385	- 1665	- 3057 - 4004 - 5103	5118	-1,2943	-1.4940	1.0460	.0203		593.15		.2040	.0473	.0354	
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C ORB	ø		. 1660	0354	1205	2156 2344 2058	. 0950	. 2356	ų. i	0666.	•	-, 33cB -, 2668	U		. 1653	.0389	1151	9.99 8.69
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11-073(0A14B)	MACH =	NT VARIABLE	.1120	C 12	0898	1238 1188 0552	0085		.0573	.9210	1246 1824 .0077 0951	3073 3175 3859 4075	MACH =	IT VARIABLE	.1120	.0835	1443	.1537 .1282 .0501
S 11-073	.280	DEPENDENT	.0700	.0226	0535	1431 1472 1215	0851		.0081	.8790	1330 2236 0115 1138	4297 4435 4723 3840	.848 MA	DEPENDENT	.0700	.1320	2625	. 1705 . 1705
AMES	8 = (.0460	.1099	.0160	0868 0837 0551	0059		.0302	.8210	1426 1353 .0257 .0990	.2403 .3981 .1630 .1895	H .		.0460	. 2863.	3528	.3198 .2563 .0889
	BETA (5	AGE	. 0230	.2232	. 1172	.0457 .0457 .0499	.0518		.0878	.7790	0535 0426 1196 0720	0030 .0794 .1049 .1053	BETA (1)	ĞE	. 0230	.3620	.5953	.4035 .4097 .5192
	7.954 B	ICHBITER FUSELAGE	.0080	.6221		.0123			. 1975	.7290	.0085 2687 1895	1024	.925 86	R FUSELAGE	. 0080	.7676		.5487
	u	• •	.0000	.9570					.9570	.6523	.0506 .0592 3281 2335	1239 0692 0723 0895	= 11.9	1.10AB1 TER	. 0000	.9179		
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í	6		100	09/c.	- 1342	1112	0751						7 KS/1		.3780	.0979	.1112	1276	3330	- 135	1126	
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- 0A148	-073(0A14B) -		T VARIABL	.1120	.0156		0100		<u>.</u>	0803 0603 .1638 0056	1794	:	MACH	VARI	.1120		. 1472	.0765 .0723	.0370	.6312		
URE DATA	-	9+8	DEPENDENT	.0700	0757		90	•		0801 1520 1824 .1824 .0568	2228 2279 3273	3	.851 M	DEPLNDENT	.0700	. 1583	2173	1832	0139	C+3+		
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(AMES
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DATA
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PAGE 1				.4970	0739				•		.4970	.1459	.1100	1492 1424 2163	0946	0615	3543		
	8703			.3780	0818				7 RN/L		.3780	.1043	.0748	1503	1036	0762	0622		
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				.2040	-1.8634	1.0460	. 1264		593.15		.2040	.0475	0168	- 3045 - 3045 - 4227	799 +	-1.4645	-1.7195	1.0460	. 1246 . 0463
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11-073-1	ORB			. 1660	.2106	0666.		 	ø		.1660	.0637	0316	1067 1219 0455	. 2822	.3210	.2665	0666	
3 (AMES	-140A/B/C		3LE CP	.1580		.9600	. 0602 0213 0164 1059	1929 2404 2409	.59584	JLE CP	.1580						/c6+	.96ng	.0161
A - 0A148	-073(0A14B)		NT VARIABLE	.1120	.0310	.9210	7.0875 7.0932 1195 0144 0495	1863 1880 1776 1823	MACH n	IT VARTABLE	.1120	į	8160. 7780.	0027 0063 0168	.0380		6440.	0126	0877
SURE DATA		3.851	DEPENDENT	.0700	0298	.8790	0870 1714 .1209 .0603 0194	2398 2090 0219	. 182 M	DEPENDENT	.0700	.1673			0446		0173	.8790	1899 1795
TED PRESSURE	AMES	11		.0460	0272	.8210	0787 0691 .1651 .2050	.2413 .1299 .2789	v		09+0	. 2525 2525	2007.	. 0979 . 0704 . 0704	0218		0227	G158.	0775
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PAGE							•		04870	: 385	9170.	1713 1485 1251	0728	.0576	.0752			
	70,						EN/L		.3780	1010	.0301	181715061508	.0754	- 96790 -	- 0738 -			
	(XE8870)						2386.7		.3010	.0612	0377	2279 - 2156 -	1663 -	. 1428 -	- 1561 -			
							a.		.2510	3440.	1029	.3140	. 3789	2924 -	- 8262 -			
				1.0460			593.15		.2040	.0347 0100	- 0951 8786	2732 3524 4752	803. 803.	.4117	.7113	1.0460	. 0405	
	FUSELAGE			1.0180			. = 593		.1770				. 5292	1961 - 1-	7	1.0180	. 2563	
AMES 11-073-1	ORB			0666.		3238 2771	o		.1660	5150.	0350	1721 1609 1112	.2025	.2734	8442.	. 9990		. 2666 2666
~	-140A/B/C		RE CP	.9600	0450 1344 1878	2062 2396 2131	.59584	LE CP	.1580					() :	560+	.9600	. 0595 - 0252 - 0710 - 1555 - 1986	
A - 0A148	-073(0A148)		IT VARIABLE	.9210	.0712 0343 0971	2049 2189 2267 2311	MACH	T VARIABLE	.1120	0588	0170	0712 0640 0138	.010 .		. 0383	.9210	0847 1422 .0306 0764	2555 - 2389 -
SURE DATA	=	182	DEPENDENT	.8790	.0534 0286 1044	2499 2855 2832 1365	.245 MA	DEPENDENT	.0700			0853 0856 0891	0927		0274	.8790	0858 - 1895 - .0017 0945 -	.3377 .3354 .3823
TED PRESSURE	AMES	11		.82:0	.0993 .1224 .1588	. 2569 . 4992 . 4115	; ;		.0460	.2222	.0317	0101 0181 0326	0329		- 0300 -	.8210	0767 0735 .0433 .0239 .0626	.4150 - .4150 - .4333 -
TABULATED		BETA (3)	361	.7790	1041 0228 .0516	.1068 .0754 .1318 .539	BETA (4)	GE	. 0230	.3896	.1794	. 1297 . 1109 . 0647	. 0225		. 0055	.7790	. 0179 . 0260 - 1249 - 0597 - 0184	. 1125 . 1563
		947 BE	IR FUSELAGE	.7290	3055 2043	0639 0379	3 4 5 8E	R FUSELAGE	. 0980	1904.		₩			.0818	.7293	.0838 .3236 .2316	. 1134
3 75		.11.	1 1 0991 TER	.6520	4573 3274	1887 1210 0662 0631	6. ::	110001169	copp.	.9389					9389	.6520	1 358 1 1031 1 1032 1 1	- :699 -
DATE 10 FEB		ALPHA (S)	ST0110% :	X/1:B	PH: 70.003 99.003	20000000000000000000000000000000000000	ALPHA (5)	SECTION (X/LB	PHI .000 20.000	46.033	70,000 186,000 140,000	159,000 151,000 162,000	ម្តី ស្ព	:80.020	e¬.×	## ### ###############################	0000

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(XE8970)

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BETA (4) =

ALPHA (51 = 11.942

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			•		.4970	.1316	. 0342		2100	097 B	0646		0854	1237									
			RN/L		.3780	7480.	-, 0418		2071	0986	0655		0878	1214									
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	ეგგგ.		G		.1660	0410	0147	2683	2312	1869	0808	 	.1975	. 1525	0666.				!	3652 - 2637	;		
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DEPENDENT VARIABLE	.9210	3088	MACH .	DEPENDENT VARIABLE	.1120		.0158	2236	- 1407	0585	10459			8000.	.9210		1613	.0031	1918 1918	7197	3216	- 3951	46.53
DEPENDE	.8790	2495	8.309 M	DEPENDE	.0700	. 1273	0715	1529	1696	1477	-, 1370			0662	.8790	1	-, 1933	040.	3035	7024 -	4677	5092	1. tota
	.8210	155+.			.0460	1952	C	- 1075		1011	- 07B1	,		0660	.8210		0747	n242	0403	900	1154.	. 3953	1001
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1.10RB17E	.6523	0671 0835	= 11.935	1.10PB1TE	0000.	מ נו								. 8 802	.6520	,	1,007	45.54	. 5547	6036 -		0876	1. 1.004 15.73
SECTION (x/LB	PH1 165.000 180.000	ALPHA (5)	SECTION (1) OPBITER	X/LB	1-14 000	20.000	55.00g	70,000	189.000	140 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	151, 293	165.000 165.000 169.000	174,630 180,063	X/1.8		ກຸກ ສຸກຸກ ສຸກຸກ			110.000	135.000	150.000	18.1.20

TABULATED PPESSURE DATA - DATYB (AMES 11-073-1)

PAGE 1083

75)		55.000 -10.000 1.400	2.9096		.5740	0570	0615							
US AUG			•		.4970	0595	0950	.0222	0601	0792	0953			
	C DATA	SPDBRK L-ELVN MACH	RN/L		.3780	0330	0822	0541 0926 1240	1055	1131	1219			
(XEBB71)	PARAMETRIC	-5.000 16.300 -10.000	- 439.47		.3010	0206	1464	0955 1728 3322	1675	1618	+1+1-			
	_	RUDCER # BOFLAP # R-ELVN #	a.		.2510	0023	1723	1878 1681 1044	2906	2474	2805			
		587	600.47		.2040	0249	1761	. 1420 . 0893 . 1529	0995	1453	2478	1.0460	. 1479	
FUSELAGE			• 60		.1770				ŗ	. 8067		1.0180	.0217	
ORB			σ		.1660	0503	0936	. 2327 . 2327 . 2984 . 57757	1.0200	1.0799	1.0048	0666.		. 0436 . 0436
-140A/B/C			1.3971	OLE CP	.1580						7 1 1 1 1	.9600	2612 3487 -3412 -2987	.0462 .0547 .1044 2389
		999 248	MACH	UT VARIABLE	.1120	ç	0461 1461	141 . 2354 . 2827	.5512		.5486	.9210	2040 1956 .3626 .2554 .0579	0526 .0719 .1947 .3097
AMES 11-073(0A14B)		6800 IN. 0000 IN. 0000 IN.	-3.857 M	DEPENDENT	.0700	.0046	.0697	.3379 .3379 .4581	.5016		.5092	.8790	1598 1696 .2044 .1404	.0737 .1125 .1726 .4855
AME		- 1076.6800 - 0000 - 375.0000	3		.0460	.0817) (·	. 4030 . 4030 . 6108	.6158		.5764	.8210	1891 1037 2013 2022 2457	.2843 .4213 .4183
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	REFERENCE DATA	85. N T	3.345 81	ER FUSELAGE	.0080	6969.		204€.			1.0312	. 7290	0231 .0183 .8545	.0537 .029
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AMES 11-07310A148) -140A/B/C ORB FUSELAGE

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				AMES	3 11-073(0A148)		-140A/B/C		ORB FUSELAGE			(XE8871)	3713		
ALPHA (4)	ŧı	7.987 BE	BETA (1)		3.873										
SECTION (1) ORBITER	FR FUSELAGE	IGE		DIPENDENT	UT VARTABLE	BLE CP								
X/LB	.0000	.0080	.0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740
PH1 180.000	1.4475	.6264	.3550	.3270	. 2225	. 1893		.8734		3979	4225	2730	2149	0707	
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	0096.	.9990	1.0180	1.7 30					
PH1 - 000 70.000 95.000 165.000	.1354 1321 0975	.1163	.1328 .1507 2802 2369	.1001 .1120 2372 0304 .0251	.0386 .0176 1343 1579	0144 0206 .1042 1937	0833 1230 .1725 .0992	į	.4168	. 3453 . 1802					
125.000 155.000 155.000 165.000	1898 0595 0469	1736 0256 0258	.0510 .0517 .0540 .0767	.0676 .1228 .1228 .2984	0610 0483 .0348 .2481	1982 1331 .0000 .1325	2395 . 1236 0959 3066	1820 1820							
ALPHA (4)	= 7.9	7.995 BE	BETA (2)	Ħ	.177 MA	MACH =	1.3969	o	- 600	600.27	•	439.47	PRV/L	•	2.9090
SECTION (13 ORB1 TE	1) ORBITER FUSELAGE	સ		DEPENDENT	IT VARIABLE	RE CP								
X/13	. 0000	. 0080	. 0230	. 0460	.0700	.1120	.1580	.1660	0771.	.2040	.8510	.3010	.3780	0794.	.5740
PH1 .000.	1.4540	1.0499	.5623	.3802	.2637	100		181		976	.0812	.0760	01110	.0880	.083v
40.000 55.000			.6351		2993	1818		1511		.0691	.1025	.1018	. 1039	.0576	.0815
70.000 10.000 120.000		63,9	5705 8705 8118	3354	2023 2033 2055 2055	1556 1551 1906		1356 1356 19797		1312	1458 1628 1830	0780 1243 3572	0899 1376 3354	1511 1666 1788	
150.000			.4328	£75.	.2100	. 1915		.8011	6730	4319.	-,4382	3423	1855	0721	
165.060 165.080 159.600							1	.9851	8589	2883	4116	2981	1977	0502	
180.000	1.4540	.6114	.3776	. 288 1	.2352	.1932	165.	.9397	•	4308	4328	2513	2083	0426	
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 . 669 40. 006	. 1221	. 1252	. 1609	.1163	. 0498	0061 0154	0770		.4144. 2770.	.3430					

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11-073-1
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DATA
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(XE8871)		
ORB FUSELAGE		
AMES 11-073(0A148) -140A/B/C ORB FUSELAGE	7.395 BETA (2) = .177	DEPENDENT VARIABLE CP
	ii G	
	BETA	SELAGE
	7.995	PRITER FUS
	ALPHA (4) =	SECTION (1) ORBITER FUSELAGE

		2.9090		.5740	.0764	.0580							
		•		0764.	.0810	.0412	1990 1561 1011	0565	0556	0713			
		RNYL		.3780	.1127	7160.	1456 1873 2295	1805	2135	2114			
		* 439.47		.3010	.0733	.0736	1332 1768 4055	3372	2638	2759		•	
		α.		.2510	.0764	.0612	1857 2119 2571	4473	4371	4168			
1.0460		600.27		.2040	.0857		. 0988 . 0988 . 0167	2942	2964	4154	1.0460	.3450	
1.0180		# 09		.1770				ě	5879		1.0180	.4189 .2701	
. 9990	1210 3229	O		. 1660	.1080	.1004	.0656 .0656 .0827	.8+8	.9292	.9002	0666.	\$	-, 1514 -, 4072
.9600	.1197 .0153 2678 2805 1743	3246 1.3969	BLE CP	.1580						200A	.9600	0920 1268 1061 2779	3681 2112 1864
.9210	0319 2124 3020 2136 1317	2	DEPENDENT VARIABLE	.1120	1111	. 1327	. 0804 . 0832 . 1354	. 1593		. 1852	.9210	0072 0139 1053 2055	2741 1733 1265
.8790	1528 1921 2274 0828 0253	. 2299 . 237 M	DEPENDE	.0700	.2628	5447.	. 1741 . 1529 . 1501	.1725		.2380	.8790	.0434 .0427 1455 2149	1262 0795 0431
.8210	1035 0161 .0474 .0486 .1201	3819 3) = (£		.0460	3795	#1+M.	24.66 24.40 26.75	.2611		.2814	.8210	.1304 .1304 0399 0597	0459 .2346 .3050
.7790	2725 2298 0381 . 0937 . 0931	.1127 1515 BETA (3	AGE	.0230	.5519	5405	4815 4468	.3387		.3795	.7790	.1343 .1653 2669 1790	.0592 .1582 .1988
.7290	2495 1879 0890	6197 8 S98.	ER FUSEL	.0080	1.0365		£. €±6.			.5867	.7290	.1272 2390	05:0
.6520	0787 0787 0726	0331 0285 -= 7.	1108811	. 0000	1.4393					1.4393	.6520	.0861 .1055 1236 0627	0359
X/LB	9H1 701.000 105.000 110.000 110.000 110.000	180.000 4LPHA (4)	SECTION (110RBITER FUSELAGE	хле	РН1 .000 .000	40.000 55.000	20.000 120.000	150.000	162.000 169.000	180.000	хле	PH: 	(197) (197) (197) (197) (197)

(XE8871)

ORB FUSELAGE TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C DATE 10 FEB 76

.1716 .5740 .1511 2.9137 .4970 -. 0958 -. 1370 -. 4942 .1545 .1466 -. 1637 -. 1054 -.0734 Z Z .3780 -.0170 .1807 1404 -.2616 -.2096 -.2227 439.71 -.3655 -.2976 .3010 . 1213 - 0072 -.0351 -.3064 .1798 -.4323 -.0718 -.1006 -.1209 .2510 .1448 6444.-.1780 -.4766 -.4395 ۵. . 2040 . 1634 . 1587 . 1577 . 1401 . 1317 . 2325 . 1896 . 1103 .9990 1.0180 1.0460 -. 3389 -.4275 1.0460 .4067 600.15 .1770 .5050 1.0180 .1660 .1865 .2035 .2519 .2090 .1961 .1975 8848 .9220 .9990 .8344 -.1911 0 .9600 -.0154 -.0652 .0228 -.0418 -.2269 -.1622 -.2040 -.36+1 = 1.3964 . 1580 .9137 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0605 .1120 .2542 .2952 .2433 .2352 .2121 .1584 .9210 . 1348 .1188 .0838 .0434 -.0007 -.1791 .9210 -3.861 MACH .1790 .8790 .0700 3638 4287 4287 4089 3412 3009 . 1590 - 1780 - 1671 - 1878 -.1315 -.1029 -.0606 1417 . 1464 .8790 .8210 7465. .0460 . 2002 - 2013 - 2113 - 0052 .4894 .5152 .5557 .5193 .4570 .4134 .3083 .8210 .1807 .2322 .0518 .1273 .2341 3415 BETA (1) 0677. .1471 . 0230 .6794 .7253 .7963 .7537 .6813 .6236 .3550 .2590 . 2665 - 3696 - 3685 - 2665 -.0359 -.0388 -.1584 -.1007 .7790 BETA SECTION 1 1: GRBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .7290 -.0327 .0080 1.1573 .7755 .7290 .4834 .2050 -.3351 -.1972 -. 193A -.0623 7.892 ₹ 11.960 .6520 .0000 1.3967 1.3967 -.1530 . 1913 -.1031 -.0875 -.6527 .6520 ALPHA (4) . ALPHA (5) РН1 165.000 180.000 20.000 55.000 70.000 70.000 120.000 150.000 151.000 165.000 165.000 165.000 165.000 165.000 174.000 .000 70.000 90.000 105.000 116.000 125.000 155.000 155.000 X/LB X/LB Ī Ē X/LH

		2		5740		0161	S)														-		•	>	0			
		2.9137			•	•	. 1529														9		,	ָ י	. 1480	1251		
104		RN/L =		04970		. 1030	. 1322	1713	2595	0928	0561	י בי									•	ı	103	0.61	.1532	1601.	7245	1552
	(XE8871)			.3780	i i	. 1043	. 1626	0888	-, 4425	2018	1904	1000									200		£700		.1573	.1325	. 1463	1815
	CXEB	= 439.71		.3010	Ĉ	101.	.1346	0726	3536	4021	3272	- 2755									470,71		0102		. 1248	1670.		1458 3831
		۵		.2510	3		. 1298	1101	1785	4698	4368	4633									•		95		. 1389	.0692		1897
		600.16		.2040	ובפת	1517	.1163	. 1740	1194	1995 1995	3254	4560	1.0460		. 4.055 1930 1930								.2040)	1556	.0571		. 1082
	ORB FUSELAGE	. 60		.1770						A04	.6672		1.0180		.5105	. 305					• 600.16		0771.			•	Į.	
		ø		.1660	*******	1846	. 1234	.1207	9404.	.7139	9759	.8926	9880		٠		2981	3236			0		.1660		. 1691	1374	.0630	. 3832
	-140A/B/C	1.3964	BLE CP	.1580								.6703	.9600		0118	. 1451			1670	-, 3499	1.3964	ECP	.1580					
	11-073(0A14B)	MACH =	NT VARIABLE	. 1120		8448	1434	.1455	. 1250	. 1253		. 1234	.9210		.0855	1304		2294		Ucb/	#	T VARIABLE	.1120		.2133	. 1897 1949	. 0670	10,00
;	MES 11-073	M 771.	DEPENDENT	.0700	.3599	. W+9+	3137	. 2524 . 2222	. 1306	.1380		.1563	.8790			2219 2218 2855			0299		.251 MACH	DEPENDENT	.0700		.3550	.3050	.1637	1450 1644
	AME	ج (2) =		.0460	8+6+.	.4917	4087	3111	5105.	. 1851		.2031	.8210			2193	0.00	- 0350 0736	3199	.3628	#	_	.3460		8264. 4580	구. 1816년 -	9.45. G. 13.10	.1995
		BETA (2	AGE	. 0230	.6839	. 6969	.6358	. 5582 . 5283	÷304	.3278		.2644	0677.		.2584 4855.	4048 3045 2098		1800	- 1087	0130	BETA (3)	ĢE	.0230		.6,128	5004. 5013.	. 4040 1040 1040 1040	42
		m	ER FUSELAGE	0800.	1.1639			.6380				.4627	.7290		.2039	3610 2435	7101	C t u 1 ·	1160'-	0316	.967 BE	R FUSELAGE	. 0080	;	1.151.1		9201	
		:: ::	1.10RB1TER	. 0000	1.4027							1.4027	.6520		.1736	2376 1462	10.1		0719		9.11.9	1) CPB1 TER	.0000		50E5 - 1			
		ALPHA (5)	SECTION :	X/LB	9H1 - 300	000.0¢	55 000	00:00 00:00 00:00	140.000	187.000 181.000	000 (6.4) 000 (6.4)	180.00	X, LB	Ŧ ā.	±0.000 .000	70.000 90.000 125.000	110.000 120.000	135.000			ALPHA 151	SECTION C	X/EB		20.00	25.00 000 000 000 000		120.000

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DATE 10 F	FEB 76		TABULATED		PRESSURE DATA	A - 0A148		(AMES 11-073-1	-					PAGE	1095
				AME	ÆS 11-073	11-073(0A148)	-140A/B/C	ORB	FUSELAGE			(XE8871)	871)		
ALPHA (5	0	.367 8	BETA (3)	ti	4.251										
SECTION	43118RC: 1)	TEP FIISELAGE	AGE		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	.0000	.0090	. 0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	.3780	.4970	.57+0
PH1 1+0.000 150.000 151.000			. 2925	8771.	.1156	.1023		. 7942	8035.	0602 3034	4783	3647	1727	0603	
169.000								9006	. 5665	3310	4559	2842	1972	0519	
180.000	1.3903	9424.	.2598	1981.	. 1576	.1130	.8679	.8555		4433	4422	2954	2063	0713	
avre	.6520	.7293	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
200 40.000 70.000 90.000 105.000	. 1639 . 1755 72559 1266	.3427 2289	.2515 .2515 .3859 -2744	.1985 .2262 1448	. 1309 . 1187 3062 4024	.0197 2662 3085	0258 0713 0223 2455		.3560	.4068 .2716					
150.000 150.000 150.000 160.000	0768 0390 0575	0546	0041 0453 0362 0274	1147 .1587 .2873	1706 1080 0381 2149	3057 1777 1423 0868	4267 2216 2153 3635	3590 4658							
ALPHA (6)	# 15.	m	BETA (1)		3.840 MA	MACH =	1.3960	ø	- 600.45		• •	* 440.18	RNAL		2.9185
SECTION C	1 1 ORBITER	ER FUSELAGE	ige to		DEPENDENT	IT VARIABLE	3LE CP								
X/LB	. 0000	. 0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	0764.	.5740
P41 . 000 . 000 . 000	1.3267	1.2573	. 8055 . 8494 . 4747	.6297 .6297 .6461	.4572	.3465		.2872 .3146		.2445 .2445 .2662	.2359	. 1947	.23.03	.2265	23.76
		7116	. 5591 . 5745 . 5745	.5398 .4519 .3806 .2273	. 194 . 3294 . 2749 . 6750	.2279 .2279 .1871		. 1879 . 1825 . 1631 . 3063			0682 0920 1253	0184 0243 3021		1086 1306 4212	
150.632			818	∙689.	. 0629	.0673		. 7804	. 23.62	0192	5118	- 0.830	3109	3135	
168.000 165.000 165.000							9690	.8509	. 6527	3730	4679	. 4061		1191	

.7628

(XE8871)

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

		.5740					2.9185		.5740	.2365	.2286						
		0.4970	0698				•		.4970	.2335	.2074	1983 1965 3253	1960	0662	0545		
		.3780	1959				B RN/L		.3780	.2207	.2114	0807 1159 5284	2423	1871	1747		
		.3010	3099				= 440.18		.3010	.1953	.1797	0766 0811 3342	4546	.3394	2842		
		.2510	4619				a.		.2510	.2103	. 1646	1099 1380 1799	5010	4632	4846		
		.2040	£6+h'-	1.0460	.3156		600.45		.2040	.2450	1573 1573	. 0526 . 1573 . 1206	1986	3540	4779	1.0460	.3197
		.1770		1.0180	. 5858 . 4446		• 60		.1770				i	υ. 10. 14. 14.		1.0180	.5915 .4456
		. 1660	. 7880	. 9990	!	2997 2975	σ		.1660	.2746	6. 1.5.0 1.0	. 1009 . 0990 . 3156	.7612	.7565	.8105	0666.	
	BLE CP	.1580		.9600	.0309 0362 0469 1530	2685 2117 3004 3617	1.3960	PLE CP	.1580					!	.6139	.9600	. 0343
	DEPENDENT VARIABLE	.1120	.0602	.9210	. 1586 . 0627 2863 2860 3459	2733 1813 2715 0640	MACH =	IT VARIABLE	.1120	Ç	.3145. 5476.	1328	.0666		.0642	.9210	.1615
-3.840	DEPENDE	.0700	.0726	.8790	.2428 .2175 4348 2514	1948 2065 3744 .1587	.180 M	DEPENDENT	.0700	9494·	1544.	. 1962 . 1962 . 0489	8490.		.0855	.8793	. 2292 . 2292
] = -3		.0460	. 1543	.8210	.2993 .3160 4579 1882	.0399 .1481 .370	,		.0460	.6076	5710	3.30 2.85 1724	.0348		.1276	.8210	.3230
BETA (1	AGE	. 0230	. 1564	.7790	.3303 .3646 5255 3715	1021 0326 1709 2056 1035	BETA (2)	IGE	. 0230	.8073	7.47	.4758 .4758 .3553	.2310		. 165±	0677.	.3502
15.903 B	ER FUSELAGE	. ၁၀৪၀	.3202	.7290	.3036 4395 3118	1939		R FUSELAGE	.0080	1.2613		.5755			.2881	.7290	. 2999
= 15.	1) ORBITER	0000	1.3267	.6520	. 2795 . 3200 2551 - 1419	2835 1203 0755	= 15.917	1) ORBITER	.0000	1.3312					1.3312	.6520	.2718 .2935
ALPHA (6)	SECTION (x/18	PH1 189.000	X/LB	PH1 - 000 - 40 000 - 000	185.000 185.000 185.000 185.000	ALPHA (6)	SECTION (X/LB	РН1 . 600 . 200	10.000 55.000	70.000 90.000 170.000	150.000	165.000 169.000 169.000	180.033	X/129	PHI .000 .40.000

PAGE					`		•		0.6970	.2260	.1748	.2504 .2504 .2153	.0752	.0507	.0667			
	212						FRV/L		.3780	.2293	. 1722	1518 - 1721 -	1864 -	- 1762 -	2000 -			
	(1CBB3X)						· ++0.18		.3010	. 1960	. 1202	1280	÷.3944	2898	3041			
							۵		.2510	.2112	.0696	1408 1715 2288	866 1 .−	4656	4589			
				1.0460			600.45		.2040	.2333	0834		3033	3602	4691	1.0460	.4706 .3319	
	FUJELAGE			1.0180			• 60(.1770				36.63	25 25 25 25 25 25 25 25 25 25 25 25 25 2		1.0180	.5893	
11-073-1	ORB			ე666.		. 3680	ø		. 1660	.2720	. 1656	0305 .0425 .3073	.6687	.8553	¥ 8.	0666.	3	. + 0833
B (AMES	-140A/B/C		BLE CP	.9600	0984 2457 3471	3041 2229 2681 3661	1.3960	BLE CP	. 1580					1000	5051.	.9600	.0241 0334 1014 3243 4632	3808 2881 2156
A - 0A148	-073(0A148)		NT VARIABLE	.9210	2395 3276 4167	2393 1736 2367 0742	MACH =	NT VARIABLE	.1120	Ç	. 24.15 15.15	.0553 .0553 .0463	.0518		. 0537	.9210	. 1545 . 0652 2398 3602	2738 2603 1368
SURE DATA	AMES 11-073	. 180	DEPENDENT	.8790	4871 3514 3836	1866 1165 2882 2449	.280	DEPENDENT	.0700	7724.	.3571	. 1418 1418 1608 10869	. 0565		.0917	.8790	.2416 .2146 4722 3973	1721
TED PRESSURE	APE	#		.8210	4653 2551 0778	0055 0128 2521 2863	# ~		.0460	6009.	1,000	. 2287 . 1918 . 1306	7.0977		. 1239	.8210	.2989 .3113 .7777	-, 1852 .0555 .2376
TABULATED		BETA (2	AGE	.7790	5502 4048 2910	0893 1893 1062 0750	BETA (3)	AGE	.0230	171	56.7	. 4133 . 4983 . 3983	.2099		.1575	.7790	. 3571 - 5113 - 4087	0489
		917 8	EP FUSELAGE	.7290	4885	161: 1772 0550	9:0	TER FUSELAGE	0360.	1.2516		. 4425			. 2693	.7290	.3139 4505 3554	1377
3 76		1. 15.	43118PO+1	.6523	3+38	1.1560 1.0798	# 15.	1108911	0200.	1.3247					1.3247	.6520	.2572 .2536 4091 2245	1030 C766
047E 13 FEB		ALPHA (6)	SECT 101	a.⊹.	######################################		אן שחק ני 19	SECTION	X/18	- 47	ې دې د	2000 2000 2000	0.00 0.00 0.00	18-18-18-18-18-18-18-18-18-18-18-18-18-1	83.0	8"./×	14 - 74 - 74 - 74 - 74 - 74 - 74 - 74 -	

.2042

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AMES 11-073(0A148) -140A/B/C ORB FUSELAGE TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

L TE 10 FEB 76

A.PHA (6) = 15.910 BETA (3) =

DEPENDENT VARIABLE CP SECTION (110RBITER FUSELAGE

.8790 .9210 .8210 0677. 0657. 0528. X/LB

.9990 1.0180 1.0450

.9500

.2801 -.0773 -.3871 .2468 PHI 165.000 -.0586 -.0876 190.000 -.07%0 -.1030 -.1028

(XE8971)

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TABULATE" PPESSURE DATA - CAI48 (AMES 11-073-1)

PAGE 1099

(XEBB72) (05 AUG 75)	PARAMETRIC DATA
ORB FUSELAGE	
AMES 11-073(0A148) -140A/B/C	
	REFERENCE DATA

	55.000 -10.000 !.250	3.0058		.5740	0535							
		•		.4970	1002	.0180 .0103 0245	0737	0847	0988			
4	SPDBRK L-ELVN MACH	PAN/i.		.3780	0694	0792 0983 1338	1307	1426	1669			
TATATE IN IC	-5.000 16.300 -10.000	= 550.63		.3010	0557	1331	2317	2332	. 1881			
	RUDDER = BDFLAP = R-ELVN =	۵		.2510	0209	2480 1799	3966	2992	3778			
	587	599.40		.2040	0125 0723 2056	2020. 1470. 1470. 8570.	. 2080 2080	2699	3754	1.0460	.1171	
		596		.1770			65.78	6017.		1.0180	.1795	
		o		. 1560	0143 0401 1048	. 1903 . 1903 . 5421	.9355	6066.	.9145	0666.	9	
		1.2471	BLE CP	. 1580					1 - 083 /	.9600	3037 4249 .3150 .2591	. 2284 . 1935 . 0720 3137
	9 29	MACH .	VT VARIABLE	.1120	0633 0554	.3316 .5307	.5132		.6070	.9210	2485 2516 .3976 .3292	.0162 .0769 .1524 .2412
	.0000 IN. .0000 IN. 375.0000 IN.	-3.854 M	DEPENDENT	0070.	0018 0171 0344	.3122 .3463 .3463 .4854	.5+38		.5457	.8790	1970 1884 .3174 .2344 .1157	.0191 .0590 .1552 .4378
	= 1075.1 = 375.1	-3		.0460	. 0644 . 0739 . 1140	8667 14.00 16.00 1	.6310		.5824	.82:0	1189 1263 .3360 .2958	.3113 .4937 .4835
K	XMRP YMRP ZYCP	BETA (1	AGE	0230	. 1897 . 2265 . 4111	. 7443 . 8243 . 8243	1954		.7355	.7790	0544 0864 .0014 .18:7	4789 4789 4789 4899
	SS.FT. IN.	3.944 99	IR FUSEL	. 3380	.6335	.928			+110.1	. 7290	0234 .0029 .0441	. 1073 . 1073
	2690.0000 474.8000 936.0050	11	110PBITER FUSELAGE	. 8300	មា វ វ				. 4 1 4 I	.6520	. 0700 . 0704 . 0704 . 0704	.0372 .0372 .0103
	S. 2017	ALPHA (1)	SECTION	© .i ×	1 000 000 000 1 000 0 07	មិន និង មិន និង មិន និង មិន និង មិន និង		្តី និង មួយ (១,១,១,១,១,១,១,១,១,១,១,១,១,១,១,១,១,១,១,	100000000000000000000000000000000000000	X/LB	PH 350 000 000 000 000 000 000 000 000 000	89.00 89.00 89.00 80 80.00 80.00 80.00 80.00 80 80.00 80 80 80 80 80 80 80 80 80 80 80 80 8

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PAGE				.4970	0947 0947 0021 0036	0605	2.5545 6890	}		•		. +970	1001 0899 0190 0201 0569
	(2)	FN/L		.3780	0765 0866 1205 1262	1646	1718			RN/L		.3780	0682 ·
	(XE8872)	- 550.63		.3010	0533 1226 2095 3204 4994	2527	1737	}		550.63		.3010	0515 - 1090 - 2528 - 3738 -
		<u>.</u>		.2510	0084 1393 3408 3563	3680	3584 3584			•		2510	0132 0549 3891 3482
		9.40		3040		1 853 2322	2767	1.0460		599.40		.2640	0042 0244 0833 0480 1854
_	FUSELAGE	. 599		.1770			.5703 .6448	1.0180	. 02831	- 599		0771.	
11-073-1	ORB	o		. 1660	4300.1 6020.1 6020.1 6021. 1360. 1660.	.8676	.9605	0666		0		.1660	0345 0120 0222 .0222 .0714 .0838
B (AMES	-140A/B/C	1.2471	BLE CP	.1580			1.0763	.9600	. 3003 - 4022 - 2547 - 1968 - 1829 - 1273 - 0415 - 3609	1.2471	LE CP	.1580	
A - 0A148	-073(0A14B)	MACH .	UT VARIABLE	.1120	0313 0302 .0726 .1908 .2396	.5734	ř	.9210	- 2470 - 2553 - 3331 - 1018 - 1019 - 0192	MACH .	T VARIABLE	.1120	0456 0321 .0331 .0933 .1299
SURE DATA	=	.190 m	DEPENDENT	.0700	.0188 .0028 .0328 .7531 .9315.	, 4838	925 g	.8790	. 1949 . 1591 . 1591 . 0499 . 0133 . 1190	.265 MA	DEPENDENT	.0700	
TED PRESSURE	AMES			.0460	. 0558 . 0558 . 3028 . 3738 . 3738	.5987	0 0 0	.8210		<i>;</i>		. 0460	0.000 000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.
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			IR FUSELAGE	.0090	. 7876		+ 200 200 400 400 400 400 400 400 400 400	•	0230 0050 . 0397 . 1104 . 1306	A CT	9 FUSELAGE	.0090	.6239
9 76		-3.937	1) CRBITER	. 0000	1.4172			, w	2000. 2050. 2050. 1081. 2070. 2070. 2750.	-3.94	110891169	. 6330	ច
DATE 10 FEB		ALPHA (1)	SECTION (X/LB	# 689 689 689 689 689 689 689 689 689 689	ប់ ស់ ភ ពី (A, men c 11	SEC*108 6	a.x	# # # # # # # # # # # # # # # # # # #

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TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

PAGE (SCEBETZ) ORB FUSELAGE AMES 11-073(04148) -1404/B/C m BETA -3.9:3 A_PHA (1)

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5740 WE. 5740 -. 2542 3.0108 -.0336 5794. -.0805 -. 0875 -.0975 3915 - 3698 -. 5971 ... Ž -.08:7 -.124: -.1623 3780 - 18th .3780 -.2260 -. 1937 -. 1695 -. D263 -. 0205 -.173 551.11 -. 1835 -.1089 -.1971 -.4160 -.0073 -.2023 .3010 -. t678 .3010 -. 1669 -.3082 -. 3034 -.0765 -.2539 -.2356 -.1813 .25.5 .2510 **1000** -.3633 -.3987 -.4213 -.4597 1.404.1 -.3277 ...0258 ...0268 ...0339 ...263 ...2727 ...2377 .2040 . 114**9** .2040 -.3659 1.0450 -. 3242 -.2824 599.89 .1770 .4508 .1770 .**6375** .6802 1.0183 . 1727 . 1660 0666. -. 1**899** -. 1000 . 1660 0128 0167 0188 0188 1590 2329 2329 2780 . 7822 9165 9608 .5122 .9304 a -.3033 -.3959 .2255 .1211 -.0323 -.1499 -.1315 -.3782 1.0424 . 1580 .1580 .9500 1.2470 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP - 23.72 - 2352 - 2352 - 1462 - 0253 -.2370 -.1151 -.0599 .0322 .1120 .1120 .5117 .9210 .0102 .0509 .1929 .2770 .3302 . 5944 5169 MACH -.1997 -.1983 .1595 .0599 -.1541 -.0465 .0618 .0700 .6700 .4243 .8790 .0759 .0709 .1402 .281: .3199 .3265 .5374 .4182 865 30.28 30.28 30.28 30.28 .2764 .5510 .0460 .8210 .0377 1618 1807 1807 1875 1875 1875 1876 1879 1879 1879 1879 1879 1879 .5782 .5017 .0460 5106 BETA (1) .0230 .3151 .4040 .4359 .6838 .7393 .7790 . 0230 5847 SECTION 1 11 CPBITER FUSELAGE SECTION (110PBITER FUSELAGE -.0165 .0093 .0083 .7290 -.0199 . 1268 .1370 .758+ ·1134 . O+5 10.0.1 10.0.1 10.0.1 10.0.1 10.0.1 .0000 0540 .0165 .0061 .0055 .0000 engao D+0+1.1 1.4262 A. Frank 1 23 6) ; ×

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PAGE 1102

(XEBB72)

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		•	67				Ž		g	058	03	228		S	05		
		.3780	2090						.3763	-, 3386	0275	1399 :657 1635	 m	2559	2397		
		.3010	2+93				551.1		.3010	0346	0506	1764 2750 4807	3:93	24€8	2181		
		.2510	4290				a		.2510	. 0367	0435	3077 3035 2728	4633	3936	4738		
		.2040	4261	1.0460	. 7 23 . 7504		9.89		. 2040	0.40	0240	. 0559 - 0159 - 0235	1274 3294	3277	4754	1.0460	1715
		0771.		1.3180	.1173		533		0771.					.6165		1.0180	94.59
		. 1660	.8772	ე666 .	į	. 0815 - 0815	Ø		. 1660	.0257	.0489	. 1765 . 2096 . 4263	.85±0	.9327	.9086	0666.	
	BLE CP	.1580		.9600	23654 3554 2894 2317		1.2470	PLE CP	.1580						80 1 0	.9600	2420
	DEPENDENT VARIABLE	1120	5143	9210	.1735 .1636 .3346 .2367	. 1255 . 0255 . 0890 . 1683	٠	VAR I ABL	1120		0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 1934 . 2371 . 4070	1 86		5261	9210	1758
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.86	DEPENDE	. 0070.	. 4209	9. 0678.	1.1695 1.1695 1.695 1.0595	- 6255 - 1 - 6256 - 1 - 6532 - 1	176 MACH	DEPENDENT	. 0700			23.95	4. 1475.		. 1+5+.	. 8790	
-3.855	DEPENDE	. 0450 .0700	•	•	• 1	8425 8532 3732	a. 176		•	1537 . 1017	20102 . 11955 20102 . 11955		<i>s</i> .		•	. a210 .8790	. 04+9
(1) = -3			. 6024. +62	. 6790	.04731169 - .04401286 - .1912 .1685 - .1619 .7918	22140425 - 3629053205323732	. 176 a. 176	DEPENDENT	. 0700 . 0700	7101. 1017	2102 . 1195 2102 . 1195 2080	3562 . 2835 3567 . 2379 584 . 3160	4. 14ZE. 3564		. 1424.	ຍ	04+9 - 1228
BETA (1) = -3	FUSELAGE	. 0450	. 5294. +829.	. 0678. 0158. 0677	04731169 - 04401266 - .1912 .1665 - 16197918	. 22140425 - 3625 - 3679 - 0532 - 3732 - 3732	SETA (2) = .176	R FUSELAGE DEPENDENT	. 0070. 0460. 0700	7101. 1017	2102 . 1195 2102 . 1195 2080	. 3567 . 2379 . 3567 . 2379 . 584 . 3160	4. 1475. 3564, ⁷⁸⁵		. 1424. 8674.	. 921¢	8521 6+40 81:
(1) = -3		. 02±0. 0230. 080	978 .6066 .5294 .4209	. 0978. 0158. 0677. 0857	- 0011 5473 - 1169 - 1169 - 1626 - 1626 - 1626 - 1635 -	.0482 .3591 .221404253995 .367902060482 .3755 .3679 .0532 .3732 .0961 .3559 .0951	. 176 a. 176	FUSELAGE DEPENDENT	. 0230 .0460 .0700 .	7101. TEST. TSOE.	2102 . 1195 2102 . 1195 2080	3 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	4. 1475. 3564, ⁷⁸⁵		. 1454. 4798 .4241	. 0158. 027T.	8521.1 6+40.1 8110. 85

AMES 11-073-1
0A148 (
TABULATED PRESSURE DATA -
DATE :3 FEB 75

(XEBB72)	
ORB FUSELAGE	
AMES 11-073(0A148) -140A/B/C	. 176
	BETA (2) #
	BETA
	. 350
	ALPH1 (2. #

					3.0108		.5740	0655	0377									
					•		0.4970	0634	0823	0508	0513	0 6 45	0695	0796				
					1 RN/L		.3780	0274	0374	1778	1723	2297	2280	2055				
					= 551.11		.3010	0014	0477	-,2335	5397	2722	2328	2440				
					۵.		.2510	.0279	0141	3571	3621	4442	4819	4234				
	1.0460				599.89		.2040	.0212	10:0.	. 1084	- 1356	3929	3385	4485	1.0460	1719		
	:.0180				± 59		0771.					200	398 80 80 80 80 80		1.0180	. 2323	<u>n</u>	
	შ666.	!	1835 1006		o		.1660	.0003	. 0495 20495	.1164	. 3248	.7734	.8877	.8956	0666.			2023 1308
BLE CP	.9500	. 1705 . 1426	0362 1207 0985	. 3583	1.2470	PLE CP	.1580							1.0113	.9600	2395	.1730	2880 2134 1841
DEPENDENT VARIABLE	.92:0	.2568 .1464 0139	1858 0937 0134	8/00-	MACH #	IT VARIABLE	.1120	- 0037		. 0920	.3165	.4384		.5022	.9210		2031	
DEPENDEI	8790	.0901 .0040 .0837				~												
	•	000	- 0818 - 0035 - 0046 - 0046	£160.		DEPENDENT	.9700	. 1005	0.000	13951	. 2253	.3185		0614	.8790	1222	0219	1661 0767 0235
	. 8210	· · ·	. 1756 0818 . 3745	. 4662	E 1,247 R	DEPENDE	.0463 .3700	0 0 10) ~ r	.2176 .1451 .2568 .1389		.4514 .3185		0614. 7174.	.8210 .8790		. 1554	
		தற ற	5997 .1750 - 3253 .3745 .3849	. 4652	(3) = 4.247	H _O	0460	. 1579 ?F#1	7.40	s 10 m	.3691	514				0458	- 0789 - 1654 - 0219 - 0219 - 0219 - 0573 - 0573 - 0573	.3292
	.8210	. 1280 . 1734	5997 .1750 - 3253 .3745 .3849	. 3735 . 4662	8ETA (3) ≈ 4,247	FUSELACE	. 0463	. 1579 ?F#1	7.40	. 1347 . 2568	.3691	930 .4514 .		. 47174.	. 8210	0458	.0789 .1654 .0721 .1289	.3292
11078TTER FUSELAGE	. 0158. 0877.	1280 .1734 . .0743 .1309 . .2063 .1259	- 0359 . 1750 . 23597 . 1750 - 3758 . 3758 . 3758 . 3849 . 5559 . 5559	:58 . 0893 .3735 .4662	(3) = 4.247	H _O	.0230 .0463	3046 . 1579 2541 . Jacob	7.40	751. 2077. 1473. 1274. 1473. 2568	.3691	930 .4514 .		. 6200 .4717	. 0128. 0677.	0283 - 1110. E850.	.11250789 .1654 .0585 .0721 .1289	. 2490 . 0179 . 3292 . 3445 . 3375

E 1104						7	3.0006	276.0	•	0189	0031											
PAGE								0604		0137	0907	1109 :064		0855	0000	9,60.						
	(XE8872)					280		7	3	.0314	.0500	07561315		2105	7626	ì						
	(XEB					- 550 to		3010		.0410	.0106	0861 1398 4128		3612	1000							
						۵	•	95.5		. 0645	.0330	2267 2176 2002	5152	4704	- 4766	3						
	Ls.			1.0460		600.17		.2040	•	5040.	.0378	1708 1236 . 0962	. 2515 2515	3788	14.82F	1 0460	3	. 1047				
Î	FUSELAGE			1.0180		*		0771.						.5476 .3476		1.0180		. 3281				
RESSURE DATA - OAI48 (AMES 11-073-1	1/C 0RB			. 9 990		a	ı	.1660		.0562	1111	.5523 .2977 .51+1	.8950	ij	.8379	0666				1751		
48 (AME	-140A/B/C		ABLE CP	.9600	38+0	1.2481	ABLE CP	.1580							1.0044	0096.		2961	. 2634 . 1921 . 1403	0033	1316	3367
TA - 0A1	11-073(0A148)		DEPENDENT VARIABLE	.9210	0109	MACH	NT VARIABLE	.1120		.0830	. 1369	.2989 .3791	.3901		.4080	.9210	ċ	06+1	.1307 0890	2251	1300	. 1207
SSURE DA	S 11-07;	4.247	DEPENDE	.8790	.2213	3.876 M	DEPENDENT	.0700		. 1534 . 1591	. 3283	.3231 .3154 .3?23	.3023		.3080	.8790	36.20	0524	. 0324 0189 1397		0853 0491	
α.	AMES	3) = 4		.8210	.3793			.0460		.2753 .2918	.3531	.4526 .4503 .4560	. 3963		.4092	.8210		.0397	0263 .0538 .1167		.2552	.3057
TABULATED		BETA (3	AGE	.7790	.3520 .3618	BETA (1	AGE	.0230		.4630	.6125 .6854	.6938 .6974 .6344	.5708		.4835	.7790	Dago	.0736	1992 1992 0027	.2374	. 2637 . 2637	. 2627
		.045	IJORBITER FUSELAGE	. 7290	. 0990	3.983 B	1) OPBITER FUSELAGE	. 0080		. 8933		.8571			. 7493	.7290	17.7		.1903	0956	. 057 [‡]	.1004
FEB 76			(1.0RB17	. 5520	.0039	M		.0000		1.4137					1.4137	.6520	ָטָּלָּרָם טַּלָּרָם	. 0552		8883	9210	0077
DATE 10 FE		ALPHA (2)	SECTION (X/LB	PH1 1E5.000 180.000	ALPHA (3)	SECTION C	X/LB	i. ii	20.02 20.02 20.02 20.02	15.000 11.000		153,000	152.000 155.000 163.000	174.000	X/LB			90.00 109.000 109.000	123.033		

1105		3.0062		.5740	0082					3.0062	.5740	0309
PAGE 1		•		.4970	0237 1148 1061	0616	0473				.4970	0130 0430 1108 0981 0696
	B72)	O RN/L		.3780	. 0292 . 0292 . 1346 - 1885	1897	2335			D RN/L	.3780	.0085 .0085 1851 2244
	(XE8B72)	- 550.40		.3010	.0132 .1563 .2109 .4696	3740	2688			550.40	.3010	.0519 .0099 2085
		C		.2510		5213	5137			۵.	516	.0443 .0443 3118 3318
		600.17		.2040	.0706 .0577 .0577 .1082 .1153	0906	5327	1.0460	.0889	600.17	2040	. 0497 . 0426 . 0445 . 0724 . 0697 0347
-	FUSELAGE	• 60		.1770		.5475 .5971		1.9180	. 3325 . 1840	• 60	0771.	
11-073-1	C 0RB (0		. 1660	.0545 .0619 .1084 .2032 .2416	.8384	.8780	. 9990	1952 1293	0	. 1660	.0684 .0684 .1121 .1452 .1784
B (AMES	-140A/B/(1.2481	SLE CP	. 1580			. \$920	.9500		1.2481	N.E. CP.	
8+:40 - V	-073(0A148)	MACH	IT VARIABLE	.1120	.0787 .1093 .1447 .1712 .3058	3998	.4155	.9210	0998 0704 1781 0220 1832 2500 1491 0638	MACH .	IT VARIABLE	.0524 .0578 .0553 .0799
PESSURE DATA		.181 M	DEPENDENT	.0700	.1733 .1595 .2057 .2513 .2408 .2356 .2555	.2846	.3211	.8790		240 HZ	DEPENDENT	1786 11483 1719 1719 1605 1878 1879
Q.	AMES	n -		.0460	. 3070 . 3070 . 3483 . 3461 . 361	.3883	.3786	.8210	.0399 .0528 .0017 .0325 .0741 .1970 .3961	<i>y</i>	<u>0</u> 7	
TABULATED		BETA (2)	1GE	.0230	5624 5634 5634 5636 5636 5636 5636 5636	.5363	.5008	.7790	.0973 .0973 .0973 .0835 .1202 .125 .2341 .2341 .23413	BETA (3)	1GE . D230	4190 4190 4555 4751 4758 75930
		38 3 B (IR FUSELAGE	.0080	. 8 959		.7359	.7290	0821 1342 0353 .0354	. 934 BE	R FUSELAGE	. 58051
97.6		. W	1) CPB1 TER	. 0300	1.4190		1.4190	. 6520		m.	110991169	1.÷064
DATE 10 FEB		ALPHA (3)	SECTION	X /LB	PHI . 000 20.000 55.000 70.000 70.000		174.000	አላርፀ	# 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ALFHA (3)	SECTION C	# # # # # # # # # # # # # # # # # # #

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-073-1)	ORB FUSELAGE	
TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C ORB FUSELAGE	מינט
NTED PRESSI	AMES	: + : : : : : : : : : : : : : : : : : :
ABULA		_
* -		BETA
		3.98€
DATE 10 FEB 76		ALPHA (3) = 3.984 BETA (3) = 4.240
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- 04148 (AMES 11-073-1)	
TABULATED PRESSURE DATA - 0A148	
DATE 10 FEB 75	

.5740 .5740 .0500 9740. 3.0127 PAGE 1107 .4970 -.2065 -.1812 -.:807 .4970 -.0668 .0506 4460. 1.075 -. 0525 - 040g **1** -. 2292 -.1300 -.1903 -.3886 .0903 .0836 .3780 -. 1998 -.2101 -.2271 (XE8872) 551.11 .3010 -.3327 .3010 -.1401 -.4310 . 1024 .0731 -.3069 -. 3432 .2510 -.5100 -.2538 -.2538 -.2755 .2510 .1035 .1133 -.5675 -.5526 -.4961 -.5310 .2040 1.0460 .3033 .1362 .2040 .0528 .0938 .1047 .1300 .1484 .0971 .0279 -.4230 -.5763 .2966 .1386 1.0460 599.90 ORB FUSELAGE .1770 1.0180 .4201 .1770 .5404 .5782 1.0180 .4197 . 1660 .8060 .9990 . 1660 1163 1163 1591 1929 1929 15431 .9990 £008 .8922 17.40. ø AMES 11-073(0A148) -140A/B/C .9600 -.1341 -.2204 .2083 .1245 .0485 -.0323 -.1762 -.1499 -.3758 9219 .9600 -.1307 1.2470 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE . 1120 .2045 -.0274 -.0154 .2217 .1185 -.0003 -.2467 -.1537 -.0481 .9210 -.0263 .1120 1460 1665 1668 1716 .2101 .9210 .213t MACH .0486 .0319 .0001 -.1572 -.1125 -.0868 .0202 .2532 .0700 . 2243 .8790 .0700 2596 2700 2816 2380 2380 2194 .0509 .1998 .2313 .8790 .173 -3.872 . 1256 1290 - 1461 - 0219 6419 .0460 .2840 .8210 .0783 .1668 .2120 4077 3869 3834 3849 3849 3509 371 371 3734 .8210 .1337 .0460 2765 2845 = BETA (2) . 1697 . 171 : - 3291 - 2777 -.0230 .5466 .546. .6769 .6069 .5738 .5559 3748 . 1135 . 0888 . 0858 . 1182 . 1873 . 0230 .7790 . 1852 . 2051 4325 .3823 .7790 BETA SECTION (1) ORBITER FUSELAGE (11 ORBITER FUSELAGE -.2569 .0080 .0083 .6140 .7290 .1311 -.1678 -. 0005 -.0256 .6797 .1493 .7293 1.0151 7.933 7.943 0000 .1331 -1424 -.0336 -.1747 -.0756 -.0448 -.0336 . 3000 1.3945 1.3878 . 1921 . 1148 PHI 193.000 SECT: CV 20.000 4.0.000 4.0.000 4.0.000 4.0.000 6.0000 6.0000 6.0000 6.0000 6.0000 6.000 6.000 6.000 6.00 ALPHA C X/:B ī X/LB m³/× ī. 87/X

1-073-1	
I AMES 1	
TABULATED PRESSURE DATA - 0A148	
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ATE 10 FEB 76	
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						3.0127		.5740	.0432	.0324							
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		7.943	ER FUSELAGE	.7293	.0058	12.023 E	ER FUSELAGE	.0080	:	1.124			. 7621				5494.	.7290	.2733	3880	2071	0532
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.1272 .1112 .4970 -.3064 -.2635 -.1555 .1239 .0737 -.2010 -.2411 -.3855 .3780 .1719 .1210 -.1782 -.2026 -.4792 .3010 .1460 .1062 -.2051 -.2722 -.3278 . 850 100 .1426 .1132 .2040 .1566 .0514 .0514 .0514 .0435 .1182 .182 .0550 .1770 .1660 1586 1349 0358 0358 0358 1510 .1580 DEPENDENT VARIABLE CP .1120 .1957 .1599 .0548 .0548 .0703 .0750 .3527 .3138 .2551 .1939 .1383 .0450 SECTION OF THE PROPERTY OF THE .0230 6641 66641 7 69644 7 69644 7 69644 7 69644 8 6 THOPBITER FUSELAGE .0393 0000. 1.32:8 1 101 035 5 LB

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APES 11-07310A1481 -140A/B/C ORB FUSELAGE			
APES 11-073(0A148) -140A/B/C		ORB FUSELAGE	
APES 11-07310A		1148) -140A/B/C	
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	1.3218	2504.	.2616	. 1859	.1472	<u> </u>	. 8829	6238.		5769	5319	3479	2184	0639	
er/s	.6520	.7290	.7790	.6210	.8790	.9210	.9600	.9990	1.0180	1.0460					
FH!	9771.	. 2939		2146	.1163	. 0244	0922		.5093	.3548					
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AMES 11-073(04148) -: +CA/B/C ORB FUSELAGE

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	1076.6 0.375.0	и К.		.0460				.5118 .5118	.6353		.5861	.8210		. 593 	76.14. 2054.	. 6554.	. 5330	. 5355
Ā		BETA (1)	36:	. 0230	. 1320 086	13518	. 5556.	.71:2	.7859		£757.	£677.		3012		.496.	יייי הביייייייייייייייייייייייייייייייי	4, 10. 4508.
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	373)	I RN/L		.3780	286 1153 1118 1501 2866	FN/L		.3780	1323 1427 1149 1206 2120
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		953 8	ER FUSELAGE	. 0080	. 5529. . 9755. . 5326. . 1326. . 1326. . 32655.	.3247 950 99	TER FUSELAGE	cess.	10 m
8 76		n L	11CP31TER	. 8393	1.3355 1.3355 1.3355 2.054 2.054 1.659 1.693 1.770 1.770	1638 1897	3_16±0+1	0000	3.356
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		etro.							3.1830		57.40	0338			
		0.64	0405	0400	5445				•		.4970	0994	0465 0545 0871	1627	0534
		3760	2835	2544	2162				PSV/L		.3780	0934	1346 1572 1870	18th	2161
		.3010	2663	2313	2327				708.37		.3010	0914	1396 2344 5478	4139	385+
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0600 -.0196 -.0179 -.0292 -.0303 0764. .0000 .0000 Z .0000 3760 .0000 .0000 .0000 -.0819 -.0826 708.37 -.2173 -.3127 -.6094 -.2783 .3010 -.0877 -.3000 -. 1205 -. 3921 .0000 0000 0000 0000 350 -.6161 .0000 ...0867 -..0867 -..0869 -..0827 -..1879 -..1398 -..1398 1.0460 . 2040 590.94 .5078 170 1.0180 9990 .8169 .1660 .0374 .0240 .0023 .0577 .1070 .1285 .3320 .760⁴ . 1970 .9600 1.1000 .1580 19651 DEPENDENT VARIABLE CP .1120 0656 1531 2132 2475 3999 .5164 .9210 4849 .177 MACH .4628 .8790 .0700 0718 0482 0918 1935 2269 2469 3489 3764. .8210 1759 1697 1967 2867 3753 3577 5050 .0460 ິດ . 5006 . 5006 . 5006 . 5006 . 5006 . 5006 . 5006 . 5006 . 5006 . 0230 .6362 6217 3677. BETA SECTION / INGRBITER FUSELAGE 553 .7293 .0090 .7009 TEST. .052 .6520 1.3462 3462 4 G 87.X

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AMES 11-07310A1481 -140A/B/C ORB FUSELAGE

					3.1830		5740	0362	.DiSD							
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					728.37		.3010	- 0060	1302 -	2821 3774 6694	- 3335 -	- 5995 -	. 3036 -			
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		1.0460			,		. 2040	- 010 - 010	- 0421		5617	5077	6145	1.0460	.1437	
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	LE CP	.9600	.1682 .1121 .0779	.0422 .0088 1251 3962	1.1000	ורב כם	.1590						.9342	.9603	3032 4222 .1251 .0492	0404 2698 2825
	IT VARIABLE	.9210	. 1993 . 1365	0288 1187 0874 0295	MACH	IT VAPIABL	.1120	1	. 0288	. 1550 . 1550 . 3205	.4390		5019	.9210	2265 2208 .2153 .1006	3217 254 2029
.177	DEPENDENT	.8793	. 1159 - 10035	1560 0943 0219 1926	.245 MA	INBONBABO	.0700	5070.	0 to 1 to 1 to 1 to 1 to 1 to 1 to 1 to	1000 1000 1000 1000 1000 1000 1000 100	.3534		.4525	.8790	2.1.59 2.1.59 2.0.00 2.0.10 3.0.10 3.0.10 3.0.10	€ 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
u		8210	.2692 .27.69 .22.0	51554 1654 1654 1654 1656 1656 1656 1656	+		.3~50	• • •		. 3596 4596 3596 3596	. 4635		. 4856	.8210	0325 0553 0715	4070 4070 4070 4100 6100
TA (2)	ા સુ	0677.	.0000 .3001	# # # # # # # # # # # # # # # # # # #	TA 3	ug Ug	.0233	.2553	เล้า เล้า เล้า	.4354 .4354 .4775	. 5838		. 5229	0677.	. 0.163 . 0.270 . 1.1.0	E E E E E E E E E E E E E E E E E E E
352 SET	P FUSELAGE	.7893	. 1 te aa . 0003	1 1000 m.	Ψ	R FUSELA	cess.	.6823		.5803			.829	.7293		11.15 18.33
ë, H	131184011	.6520	មាន មាន មាន ទ	0 000 00 00 00 00 00 00 00 00 00 00 00	• •	1108-8116	0 000.	1. 3500					1.3299	. 6523	1 mm to 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1° 1 00 00 00 00 00 00 00 00 00 00 00 00 0
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13)					RN/L		¥. 087£.	02800	00250	13681 19801 31011	- 20990	22630	24460					
(XE8873)					* 708.60		.3010	0300	0344	1289	4925	14601	3570					
					œ.		.2510	.0190	0112	3312 3423 3169	1.773	6060	5870					
			1.0460		599.99		. 2040	.0487	.0280. .0152	.0905 .0905 .0906 .0009	3464 3464	5537	6602	1.0460	.1825			
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:			ე666.		G		.1660	. 0908	.0956 .0997	. 2036 . 2036 . 4290	.8017	9778	, 4° 5.	.9990		•	2513	
-140A/B/C		LE CP	.9600	4199	1.0998	LE CP	.1580						.9361	.9600	2626 4227 2019	1564	.0594	1
•		T VARÍABLE	.9210	1296	# 5	T VARIABLE	.1120		.0814	. 3332 . 4240 . 4240	.4381		3484.	.9210	1573	2091	0335 0900 0492	
ESSURE UNIN - UNIN	4.245	DEPENDENT	.8790	.1153	3.872 MACH	DEPENDENT	.0700	.1637	.1525	.3382 .3382 .3359	. 3585		.3604	.8790		.1190	1395 1436 0748	
L a	÷ #		.8210	3494.	# .j.		.0460	.2655	.3390	4349 4485 34873 4713	8514.		.4232	.8210	.0376 .0452	. M M 7 M 1 M M	.1703 .3286 .3201	
INDUNED	TA (3)	J.	.7790	8404. 4165	BETA (1)	H	.0230	.3913	.4353	. 6759 . 6771 . 6761	. 5539		.4821	0677.	45. 5000 43.00	1.0512 1.661	.3167 .3167 .3095	
	.046 BETA	R FUSELAGE	.7290	.2190		R FUSELAGE	.0083	.8321		.8335			.7233	. 7293	. 1746	1.1932	+250	
Đ	ъ.	1:0981TER	0253.	. 1152 . 1042	≥ 4.012	113P91TER	.0000	1.3309					1.3309	.6520	1593	0133	CE53 +2+3.	
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PAGE 1118		RN/L = 3.1903		0423. 0794.	05060348	7600. 11170	0939 0925 0875	0458	0387	0358				RN/L = 3.1803		0425. 0764.	06140403	1600. 9260	
	(XE8873)	708.60 R		0 .3780	60701	4 0254	42031 52505 82169	5 1943	32245	7142 8						.3780	0314	0626	
	Š	* 708		0.3010	20256	50504	82134 52655 96028	94725	13533	93318				= 708.60		3010	~.0292	10731	
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DATA - DAI	11-073(0A148)	MACH =		.1120			. 2517 . 2610 . 3.62	. 4258		8444.	.9210	1465 1337 -2412 -1512 -0871	1736 1761 1372 0783	MACH =	VARI	.1120	7537	•	
PRESSURE DA	AMES 11-07	.182	DEPENDENT	0070.	. 1665	• •		.3327		.3637	.8790	0554 0595 .1481 .1481 0735	1798 1249 0597	4.239	DEPENDENT	.0700	.1550		
	A	2) =		.0340	بني	, vi	3.45 3.45 5.65 5.65 5.65 5.65 5.65 5.65 5.65 5	.4073		. 3958	.8210	.0516 .0516 .1700 .1691	.3533 .4717 .4881	#		.03+50	.2653	75-5.	
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		4.0.4	TER FUSELAGE	.0380	.8341		4863°			.7137	.7290	.1659 2515	0426 .0523	(B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	TER FUSEL	.033	.8153		
FEB 76		#	11680(1)	.0000	1.3358					1.3358	.6520	1.00.1 1.00.1 0.100.1	. 6580 . 6580 . 6721	1	11033	. 8000	1.3233		
DATE 10 F		ALPHA (3	SECTION	x/L8	88	88	94 95 95 95 95 95 95 95 95 95 95 95 95 95	195	<u>ពីដីដ</u> ូនូន) (C)	XVLB	PHI 100.000 100.000 90.000 105.000	189.000 189.000 189.000 165.000	1 5-2 T	SECTION	ж/гө	PH: .000 20.050	55.030 55.000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

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FE9 76		TABULATED	<u>or</u>	SURE DATA	#			-				į	PAGE 1	6111
			AMES	3 11-07310A148)		-140A/B/C	ORB F	FUSELAGE			(XE8873)	13)		
•	38 900.	35 A 1 3	<i>;</i>	.238										
:)ORBITER	P FJSELAGE	N GE		DEPENDENT	IT VARIABLE	RE CP								
3300	.0380	. 0230	.0460	. 0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	0.4970	.5740
		. 4833	. 3682	.2740	.3875		.6664	±1 ± m.	4108 5991	6429	3828	2241	0372	
							.7671	.4033	5627	6586	3490	2506	0437	
	.6865	505.	.3758	.3527	.4372	.9015	.7652		6790	5770	3583	2522	0523	
6	.7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
1702 1773 1420 1379	.1679	.1229 .1387 1406 .0277	.0350 .0452 .1328 .0991	0767 0769 .0245 0953	1582 1451 .1586 .0705	- 2696 - 3956 - 0904 - 0408	250	.3238	.0113					
2717 C928 2694 C638	.1014	. 1925 . 2919 . 3197 . 3191	.3040 .3049 .8948 .3672	2970 2422 1467	3756 3019 2571 1782	0955 . 3324 3302 4329	. 2455 2455							
7.9	976 BE	BETA (1)	ı u	3.868 MACH	#	1.1000	σ	= 599.94	₹.	•	- 708.36	RNAL		3.1794
10991TEP	P FUSEL AGE	IOE		DEPENDENT	IT VARIABLE	LE CP								ì
0 00	CB10.	.0230	.0460	00/.0.	0811.	. 1580	.1660	.1770	.2040	.83.0	.3010	.3780	0.64.	.5740
.2936	.9520	1916.	.3634	2505	•		1401		1262	.0713	.0363	.0371	.0100	.0182
		6.1.3. 8.1.3.	.4.586 4.586	3015	. 25.50 000 000 000 000		.1763		1329	0170.	.0371	.0674	6200.	.0569
	. T827	. 6578 . 6578 . 6578	. 4336 . 4336 . 3865	3362	.3089 .3246 .3644		. 2533 . 2521 . 4254		. 1339 . 0763 . 0097	2732 3182 3312	1176 1681 5169	1250 1986 5619	2205 2016 2766	
		4944.	.3041	.2591	.3682		.7832		. 2480 . 7.80	7314	5883	2488	1105	
						9024	.8040	5091	6065	6810	.5150	2343	0800	

ALPHA (4)

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ORB FUSELAGE AMES 11-073(0A148) -140A/B/C BETA (1) 7.976

-3.868

.5740 .5740 . 0233 .0350 3.179 .4970 -.0604 .4970 -.2131 -.1809 -.1560 .0107 -.0086 -.0674 -.0450 -.0397 RYL .3780 -.2148 .3780 .0336 -.1969 -.2648 -.3685 .0389 -.2159 -.2065 -. 2024 708.36 .3010 -.3988 .3010 -.2047 .0403 .0167 -.5408 -.4057 -.3825 .035 -.6388 .2510 -.3261 -.3785 -.4030 .0754 .0554 -.7405 -.6300 -.7168 -.7112 .2040 1.0460 . 2242 . 0891 .1233 .1095 .1140 .0949 .0733 -.0022 -.0875 -.2054 .2040 -.6076 -.7657 1.0460 . 2282 . 0699 599.94 .1770 1.0180 .3937 .1770 .4599 .4025 1.0180 0556 . 1660 .7065 -.3450 . 1660 .1489 .1468 .1604 .1664 .1924 .3661 .7892 0666. 7476 7271 O . 1580 -.3766 -.3766 .1723 .0972 .0295 -.0188 -.1366 -.4237 .9600 1.1000 DEPENDENT VARIABLE CP .1580 .877e 9600 -.2143 DEPENDENT VARIABLE CP -.1080 -.1064 .2515 .1559 .0881 .1120 .3711 9.10 .1120 2155 2155 2191 2389 2616 3432 .3673 -.1002 .3828 .9210 .174 MACH .0700 . 2638 -.0050 -.0362 .1399 .0526 -.1435 -.1649 -.0590 .8790 .0700 2567 2764 2764 2764 2238 2233 2253 2419 .0250 .2657 8790 .0460 .3312 .8210 .1000 .1.78 .0968 .0664 .3358 4929 .0460 3763 3701 3742 3742 3451 3325 3325 2953 8210 .103; 2977 .2039 .2273 -3918 -2784 BETA (2) .0230 .3634 .7790 .1608 .2255 .0230 5278 5372 5922 5803 5457 5305 4822 4233 3809 7793 .2040 .2259 SECTION (1) OPBITER FUSELAGE SECTION (110PBITER FUSELAGE .0080 -.3232 .5767 .7290 .2597 -.1870 -.0514 0.40 .0080 . 9592 .5463 5657 .7290 .2589 7.984 .0000 1.2396 .6520 . 0990 - 0990 - 6840 .0077 .0578 .0538 .0000 1.3077 .5520 .2+65 .2477 1.3077 ALFILE (4) PH1 180.030 .000 40.000 X/LB X/LB al/X ä

3.179 -.1819 -.1487 -.0916 .4970 -.0305 -.04BO .0124 -.0456 -. 06c3 R L -.2648 -.3234 -.2486 -.1910 .3780 .0417 -.0086 -.2238 (XE8873) 708.35 -.2784 -.3148 -.6286 .3010 .0396 -.0157 -.4474 -.4027 -. 3927 -.3661 -.4303 -.4663 .0746 .2510 .0270 -.6393 -.6722 -.7376 .2040 . 1152 . 0884 . 0739 . 0477 . 0206 - . 0731 - . 1792 - . 3276 -.7295 -.6032 1.0180 1.0460 .2306 .0536 1.0460 599.9 ORB FUSELAGE .1770 .3396 .3847 .4033 1.0180 .9990 -.3556 9990 -. 3798 -. 2522 .1660 .1499 .1363 .1444 .1095 .1157 .1394 .2982 3446. .7332 5535 G AMES 11-07310A148) -140A/B/C -.0348 -.1230 -.2501 -.4287 -.2285 -.3453 .0716 .0199 . 1342 . 0863 . 0299 .8658 .9600 .9600 1.1000 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.2427 -.2273 -.2087 -.1523 .233 MACH = -.1014 -.0974 .1163 .0203 -.0995 .2090 .1243 .0542 .1120 .9210 1624 1463 1764 2067 3059 3785 .9210 34.12 .0846 -.0416 -.1381 -.2357 -.1767 -.1137 .0890 -.0094 -.0268 -.0821 -.2163 -.2951 .8790 0070. .2487 .2177 .2220 .1726 .1371 .1342 . 2532 .8790 .1891 ŧ .0677 .0216 .0644 .8210 .3527 .3595 .3379 .3239 .2634 .2382 .2384 .2384 .0956 .1161 .2274 -.0104 .8210 .0460 .2730 .2864 BETA (3) -.3937 -.21:2 -.050 .1297 .1689 .2441 .2873 5100 4400 4400 4400 4400 4110 . 2059 - 3445 - 1490 - 0239 0230 .7790 . 3825 .3806 2977. BETA SECTICY CITORBILLA FUSFLAGE SECTION (110RB; TER FUSELAGE -.3459 -.0369 - 1129 -.3247 .7290 -.0021 <u>0</u>+64. .7293 .2593 . 3083 . 9.15+ 5451 -.0837 7.564 7.984 -.1**096** -.0676 -.0432 .0522 .0725 .0912 .6520 .0000 1.2909 .6520 .2535 -.0852 -.0899 ታመታር . 1.2909 ALPHA (+) Ch - Thaily <u>ال</u> ا

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-.3416 -.2603 -.1937 -.0075 .3245 .4133

-.1819 -.3692 -.3751

-.3957

(XE8873)

B (AMES 11-073-1)	ORB FUSELAGE
RABULATED PRESSURE DATA - DAI48 (AMES	AMES 11-073(0A148) -140A/B/C
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				3.1785		.5740	.2113		e C C																
				•		0.4970	.0979		C101 .	2361	2793	3558	1379	-, 1032		0504									
				RN/L		.3780	1611.		****.			7333	2936	25.78		. 1970									
				708.61		.3010	.1171	•	. 1234			-, 5202	1069	5639		4305									
				۵.		.2510	.1317		. 1398	2336	3015	3472	7863	ָרָ קרָטָדָּ		6794									
		1.0463		599.84		.2040	. 1903	. 1877	.2161	1598	1074	.0188	0834 2140	6670		7623	1.0460	.2724	121.						
		1.0180		* 599		GT71.								.4788			1.0180	.4770	.2798						
		0666.		ø		. 1660	.2080	. P. 15.	.2600	0450	557	+60+	.7653		.7765	.6752	.9990				3362	2558			
	ILE CP	.9600	4583	1.0997	LE CP	.1580										.8661	2.	1919	2979 2979	.0375	0100.		2703	4466	
	DEPENDENT VARIABLE	.9210	2552	MACH ==	DEPENDENT VARIABLE	.1120		.2671	32.40	0.00	֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	3012	.3117			.3155	.9210	0621	0500	1485	2543	2395	1933	0830	
4.233	DEPENDEN	.8790	.0158	-3.848 MA	DEPENDEN	.0700	3456	3609	.4169	3871	9750	1835	.1539			.1723	.8790	1 690.	.0316	0800	1303	- 1784	1.129	. 0956	
<i>3</i> *		.8210	.5131	n		.0460	4710	+98e	5405	. 5000 44.19	302	2840	.1785			.2271	.8210	. 1655	•	.0116	.0847	. 1084	.4335 .4335	:	.5001
BETA (3)	GE GE	.7790	.2856	BETA (1)	ъў.	.0230	FUE	.6917	. 7595	. 709 8	Spire.	1644.	3194			.2412	.7790	9692	.3002	3805	GgJ4	.0597	.0630	. 1605	. 2362
	R FUSELA	.7290	.0103	C67 BE	1) SPBITER FUSELAGE	.0090	1. 88.0	•			7151	5				4254·	.7290	3298		3738		1979	1785		0385
- 7.984	13 ORBITE	.6520	. 0730 . 0732	ວ. ອ : =	1199911E	0000.	g 2200	2								1.2448	.6520	845	. 3545	1641		1815	3533	5040.	. 0791
ALPHA (4)	SECTION (1) ORBITER FUSELAGE	X/LB	PH1 155.000 180.000	ALPHA (5)	SECTION (en.×	H.	20.020	±0.000	15.000 10.000 10.000		120.000	140.000 150.000	151.000 162.000	165.000 169.000	174.030 180.930	X/LB	PH1	200		500	120.000	135.000 150.000	165.000	ò

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				AMES	5 11-073	11-073(CA148)	-140A/B/C	989	ORB FUSELAGE			(XE8873)	173)		
ALPHA (5)	= :2.077		BETA (2)		.180 M	MACH =	1.0997	o	= 599.84	ę	•	708.61	RNAL		3.1785
SECTION (1) OPBITER	ER FUSELAG	165		DEPENDENT	VT VARIABLE	OLE CP								
X/LB	. 0000	. 0050	. 0230	.0460	.0700	.1120	.1580	.1660	0771.	.2040	850	.3016	.3780	.4970	.5740
	1.2458	1.0715	.6511	. 4804 4751	3558	6		.2186 5150		1954	.1428	.1183	.1247	. 1058	. 1980
, 0, 0			6569	4687	.3580	.2680		.2260		1792	.1049	. 0827	.1015	. 0803	.2123
2000		.5739	.5177 .5177 .3839	. 3258 . 3258 . 2909 . 2318	. 1396 . 1396	. 2512 . 2408 . 2408 . 2831		. 1734 . 2007 . 3675		- 0504 - 0504	2863 3587 4064	1997 2271 5674	1987 2614 7172	3234 3221 2086	
יון נ			.3018	1814	.1508	.3257		.7066		4969	7852	6029	2481	0921	
្តសូលូលូ								.7623	.4375 .4375	6534	6779	9644	1978	÷140	
0.0	1.2468	. 4038	.2551	. 1926	. 1685	.3266	. 85.58	.7185		8083	7519	4119	1796	0346	
X/LB	.6520	.7290	0677.	.8210	.8790	.9210	.9600	0666.	0.0180	1.0460					
T 000000	.3340 .3431 1131 0587	.3379 ,4335 ,3081	. 2808 . 3049 - 4943 - 3957	6969 6480 1.0949 1.0069	. 0397 . 1515 - 1352	0478 0390 .0985 0721	1800 3043 .0890 .0554 0105	7. 2.		. 0996 . 0996					
180.000 185.000 185.000 185.000	4540. 4540. 5680.	1362 0953 0256	. 1130 . 1524 . 2465 . 2769	.1395 .1359 .5765	3013 2265 1898 0562	2575 2666 2821 2025	- 2901 - 2999 - 2909 - 4558	2759							
ALPHA (5)	= 12.(.076 BE	BETA (3)	<i>3</i>	. 245. M	MACH =	1.0957	o	- 599.84	ģ	• a.	708.61	FRVL		3.1785
SECTION (11098178	TER FUSELAGE	361		DEPENDENT	IT VARTABLE	RE CP								
X/1.8	. 8000	. 6080	.0230	.0460	.0700	.1120	. 1580	.1660	0771.	.2040	.2510	.3010	.3780	0.64.	.5740
	1.2350	1.0584	.6397	.4758	3437	9.0		.2119		. 1868	71417	7111.	186	.1067	. 1847
185			. 5627 5779	3950	283 283 283 283 283 283 283 283 283 283	1946		0171		282	. 0586	.0405	.0536	# 6	. 1597
70.033 90.033 123.033		.4236	. 3722 . 3783 . 3756	22.35 2042 1856	1.59 1.59 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50			3121		. 0755 0060 1423	- 3245 - 4044 - 4655	2739 2972 6128	- 2793 - 3272 - 3703	3579 2480 1521	

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(XE8873)

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE ALFHA (5) = 12.076 BETA (3) = 4.245

.5740 .4970 -.0513 .3780 -.1717 -. 1960 .3010 -.5032 -.4189 -.4370 .2510 -. 7852 -.6958 -.6874 .2040 -.2976 -.7728 -.6537 1.0460 . 2693 . 0956 .1770 .3384 .3666 1.0180 .47**81** .2807 . 1660 .9990 .6475 .7236 .7054 -.3851 .1580 -.1949 -.3014 .0576 .0337 -.0465 .8097 .96C DEPENDE: 17 VARIABLE CP . 1120 -.0566 -.0528 .0573 -.1885 -.3708 .3027 .3216 .9210 .0700 .0946 .1436 .0532 .0286 -.1975 -.3330 .8790 ..3903 ..2723 ..1987 .0460 .1789 . 1847 .8210 . 1612 . 1834 -. 1336 -. 1336 -.0406 .2759 .4646 .5290 . 0230 0275. .2964 -.4703 -.3583 .2546 . 1602 . 1602 . 2500 . 2193 SECTIC'S CORPLIER FUSELAGE .0086 .3745 .7290 -,4254 -,8952 -.1069 .3331 -.0311 -.0323 . 0000 .6-55 . 5520 40.0000 40.000 40.000 40.000 40.000 40.000 40.000 40.000 40.00 A/LB

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(05 AUG 75) (XE8874) AMES 11-07310A148) -140A/B/C ORB FUSELAGE

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	RUDDER = BOFLAP =
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	55.000 -10.000 .900	3.5738		.5740	0085	0363								
		•		079¥.	.0103	0317	.1185	.0807	.0575	.0537	5440.			
C DATA	SPOBRK L-ELVN MACH	FIN		.3780	0269	0813	.0656	.052 3 .0364	.0288	.0231	.0165			
PARAMETR 1C	-5.000 16.300 -10.000	= 1057.3		.3010	- 6239 -	1238	0103	0412	0395	0120	.0003			
_	RUDDER = BOFLAP = R-ELVN =	۵		.2510	1793	3858	7153	6539	8518	7693	7594			
	282	600.60		.2040	2125	4334	2832	3002	1544	8331	9374	1.0460	. 1095 . 0202	
		• 600		0771.						.3973		1.0180	. 05143	
		O		.1660	2155 0000	3505	1905	0610 .1916	.6699	.7335	.6484	0666.	# •	2612
		.90080	RE CP	.1580						ğ	. 0.00	.9600	1220 2594 .0025 0603	1256 1181 1448 2861
	222	MACH .	DEPENDENT VARIABLE	.1120	0 1		0319	. 1216	.4263		.4213	.9210	4581 4862 .1804 .0907	0761 0409 0329 0044
	6.6800 IN. .0000 IN. 5.0000 IN.	-3.854 M	DEPENDE	.0700	- 1808 808 808	2091	1310	. 1763	1604.		.4138	.8790	4578 3192 .1931 5211. 6700.	1294 0947 0437 1534
	1076.) = -3		.0460	- 1096	1073	. 2355 . 2353	.3159	£64.		.4463	.8210	3443 3443 -274. .2947 .3332	.4849 .4849 .4570
T A	SWRP GRMY GRMS	BETA (1	AGE	. 0230	0712 -	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	7 BC 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	.5558 6448	.6476		.5863	.7790	2393 2343 .1493 .2011	3378 3939 3939 3590 3-69
ENCE DATA	80.FT. IN. IN.		R FUSEL	.0083	. 3603		į	. 74 is			.8516	.7293	1937 . 0211	.1420
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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

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.5740 .0005 -.0040 .5740 .0145 -.013 3.5738 .4970 -. 0022 .0960 .0846 .0629 .0563 .0570 .0553 .0075 0.4970 .0858 .0773 .0352 .032 RN/L 3 -.0308 .3780 -.0197 .0531 .0422 .0197 .0298 .0272 .0298 .0547 .0533 -.0058 .3780 -.0234 -.0091 (XE8874) 1057.3 1057.3 -.0344 -.0911 -.1465 .3010 -.0558 -.0690 .0042 -.0644 -.2281 -.2582 -.0247 .3010 -.0383 -. 0057 -.0639 -.7550 -.7254 -.6693 .2510 -.1875 -. 3484 -.8399 -.6852 -.8108 -.3078 -.7456 -. 7:484 .2510 -.1810 - 2819 - 3819 - 3330 - 3157 - 4517 - 4617 - 4617 . 2040 .9487 -. 21.99 -. 31.99 -. 394.1 -. 394.1 -. 5893 -. 5952 .1166 -.8439 1.0460 2040 600.60 600.60 ORB FUSELASE .1770 .3121 . 2763 . 1302 1.0180 .1770 - 2055 - 2321 - 2361 - 1703 - 1522 - 1622 . 1660 -.3375 0666. .6938 .6808 -. 2014 -. 2590 -. 2595 -. 2595 -. 2336 -. 2479 -. 0575 .5854 . 1660 O Ø AMES 11-073(04148) -140A/8/C -.1918 -.1786 -.2056 -.2881 -.1195 -.2750 -.0325 -.0988 .30080 .8427 .9600 .90080 DEPENDENT VARIABLE CP . 1580 DE FNDENT VARIABLE CP .1120 -.2053 -.1254 -.0071 -.0217 -.1691 -.1276 -.1343 .3760 .9210 -.4951 -.4901 .1273 .0279 .4273 .1120 -. 1973 -. 1559 -. 0793 -. 0748 .189 MACH 4.266 MACH .0730 -.4612 -.3818 .1264 .0305 -.0841 -.2776 -.2233 -.1440 3459 .4123 .8790 .0700 -.3397 -.3385 -.2099 -2199 -.0946 -.1176 -.1006 -.0249 :1159 :1913 .0460 Stat. .9210 .2861 .4354 .3426 5533 .4531 .0460 ົດ m - .0664 - .045 1.2358 1.041 1571 .0230 5953 2.04.0 2.04.0 2.04.0 2.04.0 2.04.0 2.04.0 3. . 5904 . 7790 .2694 .3623 .3623 .3514 .3514 .0230 BETA SECTION 1 1 CABITER FUSSLAGE SECTION OF LIGHBITER FUSELASE .0080 .3671 5835 8352 .05026 .0516 **6 1 1** . .1675 7233 795 .0083 -.1957 3+93 .4261 -3.915 -3.951 . 0303 . 1195 . 1833 . 0387 . 0668 6280 1.2071 1.2371 .6550 1017 1017 .0000 1.189 ALPHA (11 ALFIBA F 13 **ខ្លួន១**១០១ខ្លួ ទី១០១១០១ខ្លួ ä ମୁଷ୍ଟ ସମ୍ପଳ୍ପ ହାନ୍ତି । ଅଷ୍ଟ ସମ୍ପଳ୍ପ ହୋଳ 37, X

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)
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PAGE 1127	5			3780 . 4970 . 5743	0,500 . 0340	.0070 .0401	.0129 .0425				RN/L = 3.5726		3780 .4970 .5740	•		.0034 .0228	.023• .014፥	.0217 .0156
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				.8510	8587	. TFT	7618				•		5 5 6	•		6005	9853	8588
				.2040	8215 83¥0	8518	9380	1.0460	.1014		600.67		.2040	1671	1942 1942 1778	1.255.1 4.254.1	3909	9389
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- 0A148			T VARIABLE	.1120	.3152		. 4.14B	.9210	- 4543 - 6543 - 0193 - 0839	2359 2359 2742	MACH =	VARI	.1120	1596	1177 .0162 .1085	3012	3545	
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AMES 11-073-1	089			. 1660	. 5954	0666.			ø		. 1660	1525 1677 :929		.5683	.6580	.6365	0666.	
_	-140A/B/C		LE CP	. 1580		.9600	1119 2815 .0032 0629	1302 1446 1649 2881	.90127	PLE CP	.1580				į	. B043	.9600	1262 2848
84:40 - 1			IT VARIABLE	. 1120	.3399	.9210	0.000 0.000	0944 0745 0711	MACH	IT VARIABLE	.1120	1410	0277 .0338 .0657	.3154		.3517	.9210	4261
ESSURE DATA	11-073(04:48)	. 868	DEPENDENT	.0700	.3130	8730	.308+ .1771 .0377	1572 1598 1278	.180 M	DEPENDENT	.0700	0855 1045 0696	. 1978 . 1978 . 1978	.2617		.3176	.8790	3747
<u>g.</u>	AVES			. 046. 3	.3394	.8210	and and and and and and and and and and	. 3797 . 4025 . 3240	u		.0460	. 0051 - 0058	. 12+1 . 1630 . 2038 . 3100	35.79		. 3489	.8210	2584 2544
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1129							3.5726		.5740	.0358	.0673							
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	Ę.						RR/L		3780	0150	.0089	.0231 .029 6 .0260	.0260	.0213	. 0236			
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				1.0460			600.67		.2040	1662	2039		9+0+	8482	-1.0604	1.0460	. 1049 . 0086	
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11-073-1				ე666.	7662		o		. 1660	1505	- 1723	1674 1735 0036	.4836	.6097	.6198	0666.		0675
S C AMES	-140A/B/C		RE CP	.9600	0305 0998 1509	1937 1976 2242 2807	.90127	RE CP	.1580						. /883	.9600	1229 2578 0682 1288	2457 2521 2818
1 - 0A148			IT VARIABLE	.9210		1635 1501 1694 1673	MACH .	IT VARIABLE	.1120	į	- 1052	0361 0381 1364	.2634		.3415	.9210	- 4135 - 4302 - 0715 - 0798 - 0936	2524 2446 2957
ESSURE DATA	5 11-073(0A)48)	.180	DEPENDENT	.8790	.1038 .0145	2547 2035 0293	. 246 MJ	DEPENDENT	0070.	0975	0970	0319 0169 0790	.2045		.3125	.8790	3761 3174 0330 0722	- 5353 4759 3468
Ç.	AMES			.8210	. 1883 . 2092	.4311 .4782 .4868	<i>3</i>		.0463	g	0145	2.00.0 6.00.0 6.00.0 6.00.0 6.00.0	.3140		.3486	.8210	2658 2491 .1128 .1002	. 1355 .3670 .4636
TABULATED		BE:A (2)	354	0677.	.0350 .1620 .1632	2004 3100 3100 3040 3080 3080	BETA (3)	P.O.E.	.0233	2170.	. 1659 	2737 2737 3186 3859	. 4382		. ca:3	2877.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1519 2476 8175
		¥80	OPBLIER FUSELAGE	.7290	- 1391	. 1192 11.03 11.092	.055 86	TER FUSELAGE	C60 0 1	5118		.4167			.6934	3621.	0748 1533 0795	6 980∵
a 70		ė.	1109911	.6520	1 0 0 6 3 4 8 8	6. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	٠,	1167311	. 6338	1.2391					1602.	.6523	MODA NOCCO GAL ODD	
DATE 10 FEE		ALPHA 2	SECTION .	87/K			ALF-14 1 21	SECTION (ê î.x	- :: S		11/87 11/87 11/88		3888	ည်း နှင့်	81/8	4 9 1 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	100 62

**BCLATED PRESSURE DATA - DAIWB (AMES 11-073-1)

CATE IC FEB 16

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)
CATE 10 FEB 78

1131		3.577!	•		0. 375. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	1117									122		5760	.0793	.1123	
PAGE				603	.0737	.0635	.0139 .0148	.0108	.0170	7210.					•		0254	7170.	.0487	.0209 .0209
	3	BN/L		7007	.0146	.0284	0263 0201 0156	.0507	.0437	C++0.							.3780	9110	.0160	0274
	(XEBB3K)	1,556.6		20.02	0620	0462	1449	3920	2359	1665					1056.8		.3010	.0536	0962	- 1632 - - 1877 -
		•		3	1351	1930	6698 7246 6942	-1.0433	£146	9503					•		.2510	1911	. 2081	71967930
		601.01		0708	1021	1768	1951 3062 3833		9771	.0466	1.0460		.1248		0 9		.2040	- 1070 -	1	
_	FUSELAGE	- 601		0771.					. 2436 . 2436	ī	1.0180	1	.3196 .1900		* 601.0		.1770	1 1	11	
11-073-1	980	ø		. 1660	080₹	0832 0832	0545 0545 1272	.5500	.6255	.5915	.9990		ļ	3221 2662	0		. 1660	0860	0971	1175 1173 .0337
B (AMES	-140A/B/C	.90140	BLE CP	.1580					i C		.9600		1190 2580 0379 1040	1946 2111 2324 2723	.90143	a O	. 1580	• •	•	''
A - 0A148	11-073(0A14B)	MACH #	YT VARIABLE	.1120	i i	0130 0130	.0921 .0921	.2565		.2800	oj.		3953 4003 .1113 .0157	1780 1738 2055 1950	•	VARIABLE	.1120	0600	.0347	.0010 .0174 .1373
RESSURE DATA		.183 M	DEPENDENT	.0700	.0120	0388	.0948 .0948 .1508	. 1899		. 2231	.8790		2727 2367 0892 0091	3042 2820 2346 0772	.242 MACH	DEPENDENT	.0700			. 0022 . 0709
0.	AMES	,		.0460	000	1389	.1913 .2070 .2520	.2577		.2568	.8210		2009 1846 1554 1554	.4378 .4287 .4812 .4316	*	u	.0460			.0841 .0993 .1691
ABULATED		BETA 1 2	I GE	.0230	.2301	3497	7503. 7613. 7613.	.3890		.3580	.7790		0732 0556 0651 .0524	.1722 .2140 .2344 .2359	(A (3)	įų	.0230			. 3757 . 3757 . 3374
		18 ELO	TER FUSELAGE	0800.	.6754		- ਨੂੰ ਨੂੰ -			. 5688	.7290		.3929	0707 .0168	11 BE TA	FUSELAGE	. 3080	.6521		. 3852
מ מ			1) ORB 1 TE	.0000	1.2119					1.2119	.6520		.050: .0496 2257 1617	1639 6384 6330 6373	٠.001	1:0PB1TEP	. 0000	0861.1		
		ALPHA (3)	SECTION	X/LB	PH1 .000 20.000	55.000	76.000 90.000 120.000 140.000	153.000	169,000 169,000 174,000	183.030	X:LB		7 44 7 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	000000	ALPHA (3)	SECTION ()	x/re	. 699 . 690	55.00 15.00	97.001 183.003

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ALES 11-073(0A148) -140A/B/C ORB FUSELAGE

(XEBB74)

HA (3) = 4.60 CIIO4 (1)0/BITER B	I FUSE .OCBO	BETA (3) LAGL .0230	t = (.242 DEPENDENT	NT VARIABLE	BLE CP		ייייי ייייייי פיייייייי פייייייייייייי			(XE.BB.74)	()		
		.3384	. 2228	.1338	.2146		.4685		6910 -1.0189	-1.0324	.3403	.3780	0.64.0	.5740
	. 5455	.3578	5483	.2166	.2720	.7343	.5794		9813	8432	2341	. 0425 6440	.0083	
.5520	.7290	. 000	.8210	.8790	.9210	.9600	.9990	1.0180	1.0460				· •	
0555 6 - 3 - 6 - 3 7 - 15/3	15:35 59:55 	0712 0591 0776 0390	2014 1800 0851 250	2347 2347 0266 - 0744	3943 3919 0590 0313	1227 2372 0625 1301	ļ	. 3253	.0176					
100 - 10740 000 - 1747 000 - 1747 000 - 10818	-, 0912 . 0223 . 0545	.0869 .1.43. .2076 .2104	3509	4273 4604 3933 1999	2536 3116 3376	2370 2557 2813 2675	-,3179 -,2665							
4) = 7.9	933 BE	CTA CTD	r;i u	872 578	FACH =	.90130	ø	= 600.85		g. Q.	1056.6	1/NE		3.5771
(1) CRBITER	5	Jy Jy	-	DEPENDENT	T VARIABLE	LE CP								,
2000 -	0000	.0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.378	0.4970	.5740
1.1692	.8101	.3589		.1160	.0361		.0078	, ,	0271	. 3290	0157	.0432	<u> </u>	.1477
		. 55709 . 55726 . 5204	.3382 .3116	.2357 .2018	. 1455 1581		.0299		. 0230 - 0513				.1147	. 1857
	.6397	#201 m.		. 1525	.1588		.0570 .0570 .2134			5040 6098 6523	1768 2390 4988	0955 11+1 2537	0019 0092 1544	
		£10£.	. 1634	. 1265	.2101		. 5932	. 2625 2725 1. 1	- 8084.	.5913	4732 -	. 1630	0307	
						.7388	.6163		9897	6239 -	.5136	1468	0117	

TABULATED PRESSURE DATA - DAIYB (AMES 11-073-1) DATE 10 FEB 76

ORB FUSELAGE AMES 11-073(0A148) -140A/B/C BETA (1) = 7.933

-3.872

ALPHA - 4

(XEB874)

5740 5740 .1513 . 1853 3.5771 .4970 .0078 £970 -.0138 -.0180 -.0627 . 1233 .1050 -.0008 .0163 .0199 Z -. 1347 .3780 .3780 -.0994 -.0942 -.1598 .0555 .0524 -.0778 -.0908 -. 0892 1056.6 .3010 -.5086 -.1949 -.2386 -.3126 .3010 -.0171 -.0365 -.4833 -.4791 -.4418 .2510 -.6393 .2510 -.0487 -. 1032 ..5875 ..6894 .6922 -.6700 -.6684 -. OF 11 .2040 -.8509 1.0460 .1399 .2040 -.0255 -.0465 -.0553 -.1062 -.1460 -.2467 -.3501 -1.0333 -.8722 600.85 .1770 1.0180 .3751 .2580 .1770 .1842 . 1660 .9990 -.3112 .5121 -.0051 -.0086 .0037 -.0281 -.0215 -.0203 . 1660 5338 .5970 .5558 . 1580 .9600 -.1098 -.2631 -.0096 -.0835 -.1441 -.1582 -.1998 -.2050 -.2574 .90130 .1580 DEPENDENT VARIABLE CP .7076 DEPENDENT VARIABLE CP .1120 .9210 -.3730 -.3815 .1383 .0405 -.0334 -.1486 -.1572 -.1423 -.1114 .2096 MACH .1120 0293 0771 0686 0815 0336 1785 2016 2163 .0700 -.1973 -.1921 .1247 .0433 -.0315 -.2065 -.2457 -.2269 -.0135 . 1362 .8790 .0700 .1188 .1069 .1394 .1337 .0929 .0884 .1119 1437 .171 .0450 .8210 -.1212 -.0994 .1691 .1492 <u>.</u> . 1436 .2293 .2904 .3258 2245 2245 2437 2316 2033 1979 .0420 .1599 .1584 BETA (2) . 0230 .2165 .7790 .0007 .0230 3747 3875 4454 4323 4323 3975 3851 3450 2796 .2359 SECTION : 110RBITER FUSELAGE SECTION (1) CRBITER FUSELAGE .0080 .4286 -.5545 . 7290 0180. .0800 -.1867 -.0740 -.0434 .8181 .4325 4167 8.029 .0000 . 1450 - 3033 - 2472 1.1692 . 6520 -.1451 -.1209 -.0968 -.2886 .0000 1.1779 . 1779 ALPHA (4) PH1 180.000 X/LB X/LB 87/X

1.0460

1.0180

.9990

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							(•	0.01	.1223	.0830	0363	.0122	.0151	P500.					
(XFRR74)								אמין	2300	.0521	.0250	1085 0952 0949	0719	0653	0954					
(XF							1056		0.05	0255	1113	2071		. 0694	4631					
							a		0156	0519	1543	6562 7599 7287	6450 -	7064	6882 -					
t.1			1.0460				600.85		0402.	0391	0917		6517 -1.0263	-1.0407	8576	1.0460	.1394	. 0213		
FUSELAGE			1.0183				* 60		. 1770					. 1351		1.0180	.3785	.2113		
C ORB			. 9990		3:89		o		.1660	0109	0302	0872 0826 0686	.4572	.5505	.5380	0666.			3114	
-140A/B/C		BLE CP	.96:00	0479 1161 1726	2039	2655	. 90130	RE CP	. 1580					ě	1 60.	.9600	. 0850	1.0826 1.0826 1.1344 1.1991		2637 2802
3(0A14B)		INT VARIABLE	.9210	.0820 0097 0825	2089	2203	MACH	IT VARIABL	.1120	.0154 4010.	.0199	. 0164 . 0349 . 1348	. 1683		.2103	.9210		. 0552 0552 1338		2731 3318
AMES 11-073(0A148)	.171	DEPENDENT	.8790	.0510 0497 1428	3446	2809	.235 M	DEPENDENT	.0700	. 1818			7:90.		. 1255	.8790		0183 1198		3397
AME			.8210	.0962 .0766 .0708	.0804	.3526	#		.0460	, , , , , , , , ,		. 0965 . 0899 . 1157	. 1354		.1504	.8210	ÜΈ	. 0156 0059 0096	ou n	3329
	BETA (2	AGE	.7790	0935 0174 0539	.0680	. 1398 . 1507 . 1498	BETA (3:	GE	.0230	3537	.3454	.2776 .2770 .2623	.2357		. 2350	.7793	3046 0212	. 1660 . 1066 . 0546	6255	
	.029 8	TER FUSELAGE	. 7290	603 1 4479	•	0767	ij	R FUSELAGE	.0330	.8016		.3350			.3912	.7290	406D.	.5716 -	- 20402.	. 3543
	œ "	11048	.6520	- 3031 - 2033	.197	1.0545 1.0503 1.0691	8.0	1.099175	0000	303: :					1.1606	.6520	1384 1410		- 1 5541 :	. C8483.
	ALPHA (4)	SECTION	C/LB	PHI 70.000 90.000 105.000	ကြည်းက	ا الله الله الله الله الله الله الله ال	PHA - THAIL	SECTION (/r.B	. 666	ပြင်	95,730 186,000 140,000	្តីខ្លួន	និង	0	<u>m</u>	***	70.030 80.030 85.030	3 (3)	د ،

PAGE						RN/L .		0.4970	. 1835	. 1843	0335	1	0866	039	1	0028							
	(XE8874)							.3780	. 1033	.1170	1453	4212	2342	2051		1833							
	CXE					1056.9		.3010	.0507	.0658	- 1989	5+30	5070	5632		5544							
						•		.2510	. 0255	.0118	- 4289	6606	5832	6005		6215							
				1.0460		601.36		.2040	.0534	. 0584 . 0584	0543	2453	5243	8490		6845	1.0460	1524	80/0.				
•	FUSELAGE			1.0180		± 601		.1770						13.9.			1.0180	300%	.2/93				
(AMES 11-073-1	ORB			3666 .		ø		. 1660	.0765	1202	8520. 0720.	. 1954	.5727		. 2855	7174.	0666.			44 E	2610		
8 (AMES	-140A/B/C		BLE CP	.9600	2768	.90157	BLE CP	.1580							.7015		.9600	1800	0381			2467	2591
4 - 0A148	-073(0A14B)		VT VARIABLE	.9210	3374	MACH =	T VARIABLE	.1120		2002	. 1605 . 1605 	1498	.1487			.1527	.9210	3439		1359	2270	2368 2268	1725
ABULATED PRESSURE DATA	=	. 235	DEPENDENT	.8790	1967	-3.859 M	DEPENDENT	.0700	.2227	. 2922	. 1954 1954	.0631	.0351			. 0503	.8790	1502		2195	3283	3293	0863
IED PRES	AMES	<i>±</i> 11		.8210	. 3292			09ოე:	.3426	. 3554	2005. 1005. 100. 100. 100. 100. 100. 100.	1458	.0579			. 0882	.8210	-, 0499	0241 .0232	. 11%	. 1650	. 3003 . 3003	.3341
TABULA		BETA (3)	, GE	0677.	. 1289 . 1243	BETA (1	IGE	. 3230	.5079	. 5555 . 5555 . 5555 . 5555		.3007	.1702			.0927	.7790	5670.	- 1415		.0330	. 05551 . 0078	. 0920 . 0920
			R FUSELA	.7290	0539		11098ITER FUSELAGE	.0080	.9328		ι					.2507	. 7290	.1632	7175	•	2346	19+3	1054
3 76		₽ 8.03	I) ORBITER FUSELAGE	.6520	0921	= 11.980	11099176	. 0000	1.1065							1.1066	.6520	4215.	N. 4-1-1-1	D	3623	2457	1893 :542
DATE 10 FEB 76		ALPHA (+)	SECT 101: 1	X/LB	PH1 165.000 180.000	ALP + 1 5)	SECTION (X/LB	E 66	50.0 10.0	386 161		3 G 6			0.00	X/LB	7 +! Cno.			120.050	18. C.S.S.	165.030 180.030

.2154 .2642

.5740

TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

ł	. 5829		5740	2178	.2439								62		5740	2152	.2204	
; i	W			_		M M N		40					3.5829		•	•		
			.4970	.188	.1537	0803 0618 1397	.033	9400.	.0215				٠		0764.	. 1876	.1187	1285 0752 053;
874.)	9 RN/L		.3780	.1083	6480.	1992 2075 3207	1755	1925	2217				RN/L		.3780	.1038	.0285	£216 2052 2220
(VE8874)	= 1056.9		.3010	. 0562	.0031	2390 2368 4318	5375	5486	5495				= 1056.9		.3010	. 0600	0684	3323 2420 3646
	۵		.2510	. 0277	6440	5185 6479 7025	5940	6034	5900				<u>.</u>		.2510	. 0353	1069	5908 7216 6728
4.4	35.10		.204.0	+850. 6440	.0140	1196 2069 3379	4830	9000	6968	1.0460	.1576		.36		.2040	5450. 6410.	0553	1714 2771 4311
FUSELAGE	109 =		.1770				į	1974		1.0180	ትያ ትያ ትያ ት ት ት ት ት ት ት ት ት ት ት ት ት ት ት		= E01		.1770			
0RB	ø		.1660	0809.	25.0.	0072 0018 1505	.5166	.5639	.5229	0666.		2565	0		.1660	.0756	0973	0693 0482 .0935
-140A/B/C	.90157	BLE CP	.1580					50	1900.	.9600	3177 3992 0602 1221 1976	2344 2567 2635 2634	.90157	LE CP	.1590			
11-073(0A148)	MACH	NT VARIABL	.1120	. 1355	. 1429	.0818 .0880 .1285	.1543		.1563	.9210	3349 3354 .0063 0807	2531 2587 2782 2491	MACH ==	T VARIABL	.1120	.1056	.0752	. 1.35 25.1 25.1 25.1
S 11-073	.183 m	DEPENDENT	.0700	. 2272 . 2175	.1504	.0625 .0665 .0288	.0371		. 0643	.8790	1453 1722 1198 2184	4221 3980 3431 1165	256 MA	DEPENDENT	.0700	.1838	. 1526 . 0384	0053 0191 0170
AME	B		.0460	.3483 .3469	.3379	.1906 1591 .1016	. 0600		. 3556	.8210	0455 0206 0503 0357	.0848 .2597 .3916 .3542	خ اا		.0460	3414	. 1218 . 1215	. 0457 . 0457
	BETA (2	AGE	.0230	.5148	.5306	. 3749 . 3310 . 1049	. 1667		. 1242	.7790	.0829 .1051 -1985 -0814	.0234 .0234 .0347 .0347	TA (3)	ыg	. 0230	.5033	3146	23053. 53053. 1910
	050	TER FUSELAGE	. 6080	.9359		.4226			.2517	.7290	. 1659 7294 5784	2970 1893	05° BET.	P FUSELAGE	0600.	1+26.		.2630
	12.	11860(1)	. 0000	1.1177					1.11.77	.6523	. 3+32	2639 1988 1450 1272	= 12.0	1)093;TER	.0000	1.1913		
	ALPHA (5)	SECTION	X/;_B							×/Lg	PH; -60.000 -70.000 -90.000 -100.000	CODOG	A; P14A (5)	0.401.035	ST:X	P41 .000 .20.000	50.000 100.000 100.000	1000 1000 1000 1000 1000 1000 1000 100

	DATE 10 FEB	E9 7 6		TABULA	TED PRES	SURE DAT	A - 0A14	TABULATED PRESSURE DATA - DAIH8 (AMES 11-073-1)	11-073-	-					PAGE 1137	137
1.00 1.00					AME	5 11-073	(0A148)	-140A/B/(FUSELAGE	4.0		CXEB	874)		
1100 1 100 1 1 1 1 1 1	_	ti .		_		256										
	SECTION (1108911	ER FUSEL	AGE		DEPENDE	NT VARIA	BLE CP								
	x/58	. 0300	.0083	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	0.0040	.2510	.3010	3780	0.4970	5740
- 6207 - 6209 - 6209	H d															
.000 .000 .000 .000 .000 .000 .000 .00	140.630										- 6207					
	159.000			. 1349	0470	0108	1341		4509		-1.0036	5051	. K760	2001	2	
- 6295 - 5576 - 55576 - 52301	15: .000								}			7000	6000	. 10/6		
.653655765301	100.000 100.000 100.000									. 1183						
.5520	169.000								8		2254	6053	5576	2301	.0189	
.6520 . 1730 . 8210 . 9586 . 0477 . 1567 5689 5636 5550 5299 5689 5550 5299 5689 5550 5299 5689 5550 555	174.000							2023	csac.							
1031 1999 1960 1960 1960 1960 1960 1960 1900 190	:83.00	1.1013	. 2250	.117±	.0586	.0477	.1562	3050.	.5089		6491	5836	5550	2299	0075	
-2144 . 1577 . 0744 - 0496 - 1509 - 3351 - 2264 . 4081 . 2282 . 2282 . 2359 - 1801 - 3301 - 3359 - 2359 . 2212 . 2282 . 2339 - 1045 - 1817 - 0394 - 0935 . 2212 . 2305 - 2095 - 1085 - 2902 - 1202 - 1460 . 2120 - 1140 . 0735 - 4681 - 2301 - 2291 . 23139 . 17140 - 0775 - 4681 - 2301 - 2767 - 2592 . 2592 . 2592 . 2592 - 2592 - 2592 . 2592 - 2593 - 2714 - 2708 . 2592 . 2592 . 2693 - 24146 - 2819 . 2757 - 2592 . 2293 - 24146 - 2819 . 2757 - 2592 . 2293 - 24146 - 2819 . 2757 - 2592 . 2293 - 24146 - 2819 . 2757 - 2592 . 2758 - 2819 - 2819 . 2845 - 2879 - 2879	87.X	.6520	.7290	.7790	.8210	.8790	.9210	.9600		1.0180	1.0460					
-2184 . 1677 . 0744 0496 1509 3351 2264 4081 2389 2389 2389 2389 2389 2389 2389 2389 2389 2389 2389 2389 2389 2889 2889 2892 2891 2389 2389 2389 2389 2777 2899 0725 2899	i, d															
-2:82	.333	4416.	.1677			-, 1509	1361	1926		1001	06.01					
44497375233910451817039409352345234518170354093523451865290214601460176529021460146007354681230122913139114007250309495236912767259214112908137805763699414628191378187836954146281918781878369541462819384218781878369541462819		.2:82				1001	1022 -	24.5			0000					
3405586920951085290212021460 11400735468123012291 2177228907250309495236912707 148213780876 .3458426641462819 129513780876 .3458366941462819 129510373221	70,388	のかか・				- 1817	1020	10025		יכניום.	· UCB4					
- 1853 - 1855 - 1864 - 6110 - 0411 - 6252 - 1855 -	000. 000. 000.	3+05				2902	1202	1460								
21772599030949523591276722394952369127083659414127083659414628191378365941462819159513783659414628791563124906953221) (1) (1) (1)					4681	2301		1							
14821378 .05544584544141 1295 .0576 .345836694146 1295 .0685 .3221	183.050 183.050 183.050	7.15	2999			4952			51 39 2592							
3842 - 1819 - 3842 - 3221 - 1819 - 3842 - 3000 - 1563 - 1249 - 3685 - 3221	000.031 000.031	1482	1378			4666 3669		2708 2819								
	1 7	1563	1249	. 1037	. 3221	1819		2879								

TABULATED PRESSURE DATA - CAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C ORB FUSELAGE
DATE 10 FEB 76	

PAGE 1138

(XEBB75)

	55.000 -10.000 .600	4.8576		.5740	+960	1680							
				0.4970	0723	1597	.1077	.0008	0156	0343			
C DATA	SPDBPK L-ELVN MACE	RNAL		.3780	084×	1741	0531	931E	0522	0692			
PARAMETRIC	-5.000 :6.300 -10.300	≈ 2386.4		.3010	1078	2035	0081 0415 1575		1270	1308			
	RUDDER = BOFLAP = R-ELVN =	۵		.2510	1324	2725	1362 1656 1806	3114	2391	2304			
	58 S	594.32		.2040	1596	1076.	- 1836 - 1434 - 1434	1953	9250	1.1761	1.0460	0104	
		# 59		.1770				ő	95. 95. 95. 95. 95. 95. 95. 95. 95. 95	•	1.0180	.2022 .0933	
		σ		.1660	1844	3807	0407 0181	.5556	. 5656	.3587	0666.	t -	2330
		.59648	RE CP	.1580					9	, 0980 0	.9600	0947 1813 0325 1008	1296 1496 1355 2569
	999 248	MACH	DEPENDENT VARIABLE	.1120	Č	3147	. 1309 . 1309 . 3119	.3456		.2877	.9210	2293 2184 .1278 .0366	0815 0589 0453 0150
	76.6800 IN. .0000 IN. 75.0000 IN.	-7.854 M	DEPENDE	.0700	- 2385	3107 3107	1975 1975 3431	3405		. 2858	.8790	2455 2318 -1630 -1012	0938 0786 1590
	1076.	7- = (. 5460	- 2208	1.000 1.000	. 27.45 . 32.75 . 520	67.7 7.		. 3298	.8210	2783 3005 -2493 .8850	.5354 .5013 .3530
TA	XMRP YMRP ZMRP	BETA (1	AGE	.0230	-, 2286 2001		5378 5378 .6143	5619		4314	.7790	2195 2370 -1412 1808	.2741 .3043 .2853 .2330 .1824
PEFERENCE DATA	So.FT.	. 999 BR	1) ORBITER FUSELAGE	. 3083	. 1256		.7320			.7055	.7290	1737 	0111. 6901.
PEFE	2690.0300 474.6300 936.3680	# E		. 0000	1.00.1 8:00.1					1.0012	.6520	01150 01150 01150	.0476 .0397 .0153.
	SREF = 5 LREF = BREF = SCALE =	ALPHA (1)	SECTION C	81/x	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000 mg 4	00000000000000000000000000000000000000	ចាល់ ពេក ប៉ុ ពេក ប៉ុ ពេក ប៉ុ	188.000 P	30.00	87/K	94. 70.000 70.000 94.000 100.000	

85 II		4.8576		5740	0821	1242								4.8576		.5740	0801	
PAG.		•		.4970	0591	- 71117	.0543 .0543	.0237	.0163	.0080				•		0.64	0542	. 0282 0820. 0840. 0870.
	(27	RN/L		.3780	0685	1196	.0095 .0095 0066	0209	0266	0365				RN/L		.3780	0566	
	(XE8875)	2386.4		.3010	0902	1435	0413 0799 2002	eveo	1029	1034				- 2386.4		.3010	0793	0705 1078 2455
		•		.2510	1160	2107	1868 2193 2355	2709	2095	1998				<u>.</u>		.2510	1115	2560 2670 2904
		.32		.2040	1418	2699 2699	1957 2781 2470	2725 4119	9283	-1.1558	1.0460	.0055		. 32		.2040	1375	- 2504 - 3518 - 3518
~	FUSELAGE	* 534		.1770					1909	•	1.0180	.1315		* 594		.1770		
11-073-1	ORB	σ		. 166¢	1621	3053	1876 1089 0769	.5035	5552	.4598	9880		7.31.4 7.243.7	ø		. 1660	167.3	2113 2113 1797 1961
1 AMES	-140A/B/C	.59648	NE CP	.1580						.7061	.9600	0978 1835 0503 1169	1748 1778 1643 2536	.59648	3LE CP	.1580		
1 - CA148	-073(0A148) -	MACH	IT VARIABLE	.1120	i		. 1469 .0042 .0363 .2313	.324		.3139	.9210	2280 2141 .0938 0021	1371 0967 0980 091	MACH .	T VARIABLE	.1120	2168	-, 2242 -, 1785 -, 0691 -, 0604 -, 1356
ESSURE DATA		3.848 M	DEPENDENT	.0700	2178	2593 2593	0688 .0303 .0213 .2533	.2183		.3188	.8790	2469 2868 .1259 .0405	1687 1371 1161	.187 H.	DEPENDENT	.0700	2119	2374 1127 0400 0168
C E	AMES	Wi H		.0460	98:	- 1940 - 1945	0088 .1296 .3641	4004.		.3563	.8210	2775 2923 -2042 -2258 -2830	.4018 .4591 .4211	n		.03+50	1799	1889 0623 . 6900 . 2512
TABULATE		BETA (2)	IGE	.0230	- 1847	.0011	. 1958 . 4591 . 5232	.5353		7074.	0677.	2155 2250 .1016 .1441	. 3075 . 3019 . 3019 . 1675	BETA (3)	ACE	.0230	1881 1650	0284 . 1130 . 3005 . 4114
		.939 86	R FUSELAGE	. 0080	.:657		. 5993			.7234	.7290	1672 0089 750.	.1316	933 Bi	FUSEL	.0080	1719	6£ 44°.
3 75		-3.9	110RB1TER	. 0003	1.0459					:.0459	.6523	-, 1313 -, 2123 -, 0157	8450. 0650. 9530.	-3.6	1.10RB17ER	. 2366	1.0539	
DATE 10 FEB		ALPHA (1)	0.507.704. c	X/LB	.1.	70.000 40.000	100 mg	0 m 0		100 000 000 000 000 000 000 000 000 000	m At	1	110,000 170,000 170,000 170,000 170,000	A; F+th (1)	SECTION (e . x	PH1 .630 26.933	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

DATE 10 FE	9 76		TABULATED	ED PRESSURE	SURE DATA	- 04148	(AMES	11-073-1	~					PAGE 1	1140
				AMES	3 11-073(0A14B)		-140A/B/C	ORB F	FUSEL AGE			(XEB.			
A_PHA (1)	= -3.939		BETA (3)	t t	187										
SECTION :	1108BI1EB	P FUSELAGE	SE SE		DEPENDENT	IT VARIABLE	LE CP								
x/LB	. 0000	.0080	.0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	.37ec	0.4970	.5740
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			. 4822	.3553	.2616	.2739		+80 + .	. (291	3508	2525	0943	02:7	.0198	
ន្ទន្ធនូវ មានស								. 5204	. 0935	9236	19F3	0952	0235	. 0232	
3 ()	1.0533	.7181	£884.	.3608	.3300	.3313	. 6 872	.5090	,	1.1307	1870	0860	02:5	. 0213	
(i) S:	6583	.7290	06:1.	.8210	.8790	.9210	.9600	0666.	1.0190	1.0463					
	# 15 mm	- 1651 - 0116 - 03.2	68.89 88.89 88.89 88.80 88.80 88.80	- 2811 - 2872 - 1598 - 1558 - 1553	2463 2911 0833	- 2233 - 2205 - 0339 - 1007	-,0982 -,1513 -,1598 -,1359 -,1354		.:170	. 0058 6270. - 0458					
ှ သင်းကိုမ်း	# # # # # # # # # # # # # # # # # # #	1889 11889	2007 2007 2007 2008 2008 2008 2008	.4828 .4826 .4803	25685217517210293	- 1598 - 1782 - 1782	1.2214 1.20178 1.20178	.2573							
ALC: ALC: A	= -3.32	(i)	1. A 4.	,±	. 266 MACH	# E	.59€48	ø	# 594	55.	•	2386.4	J/Ng	it n	.8576
20 CO	Grand Control of Contr	7 1357 F B	띩		DEPENDENT	T VARIABLE	E CP								
æ ∵ ≺	0	0800°	.0230	. 3463	0020	.:120	. 1580	.1653	0771.	0+02.	.2510	.3010	.3760	0.64.	5743
	C 32	φ τ ει τ ει τ ει		# # # # # # # # # # # # # # # # # # #	0.000 0.000		## ### ###############################	1.1584 1.1744 1.2453 1.2623 1.2623 1.2623 1.2623 1.2633 1.2653	-, 1059 -, 0310	111472 112472 112472 112473 11	. 1156 . 1324 . 3366 . 3494 . 2499	0877 0309 1300 1300 1186	055. 054.8015. 0558055805580558	.0605 .0411 .0333 .0659 .0659	0307

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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(XEBB75)

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

		57.0	_				4.8578		5740	098										
		¥978	.0034				٠.		6764.	0728	- (1650.3		0.00.00.00.00.00.00.00.00.00.00.00.00.0	0610	0588		02.7g	B#3		
		.3760	0405				FR/L		3780	0827	2		01E1 0332	122	0989	,	086.7	0758		
		.3010	1028				2396.4		.3010	1328	- 0578		0971		1511		1539	1385		
		.2510	1972				•		.2510	135	5711		. 23.88 25.58	39+1	2697	i		2350		
		0+02.	-1.1357	0460	0102 0504		594.32		. 2040	1625	1637	- 2554 -	5633	5498	632¢	1	9868	-1.1395	1.0460	U228 0638
		.1770	·	1.0180	9. 11. 24.		កំព ៖		3770							2629 1829		•	1.0180	. 2008 . 0961
		. 1660	.4787	0666.	•	3168 2697	ø		.1650	1889	1805	2532	- 3466 - 3466	3440	. 1402		.3663	.3884	0666.	
	8.E CP	.1580		.9600	. 1050 . 1335 0855 1427	2705 2602 2501 2664	595+8	R CP	.1583								ć	uito.	.9600	1014
	DEPENDENT VAR: AB	.1120	.3125	.9210	- 2346 - 2262 - 0355 - 0654	2799 2354 2643 2667	MACH	T VARIABL	.1120	!	2123	2166	19:7	1101	.0973			.2747	.9210	2292 2445
4.266	3CN3d3C	.6700	.3161	.8790	1	3732 3279 2815 1397	.332 M	DEPENDENT	.0750	2453	******** • . 2384	20:2	2183	1228	. 0885			.2709	.8790	2468 2995
		.0460	.3514	.9210	- 2845 - 2792 - 1191 - 1017	1349 3264 4787 4537	8	•	. ৫453		.1999	763	1482		. 1993			.3083	.8210	2837 2707
BETA ! 4	AGE	.0230	.4746	.7790			[TA (5)	JOE 10E	. 0233	2101	- 2096	0553	61.40.	1	. 2853			. 4241	.7790	2181 2010
3.926 B	ER FUSELAGE	. 9383	.6871	.7290	1.1695 1.0484 1.0021	.0149	176	TR FUSELAGE	000	. 1215			. 3994					.6164	.7290	:723
m .	1) ORB : TER	. 3350	1.0324	.6520	1370 1659 0187	.0335 .0335 .0379	-3.9	110931168	. 000	1586.								.9801	.6520	1. 1458 1. 1436
ALPHA (1)	SEC_10.	X/LB	PH1 180.000	X/LB	## ###################################	00000	FPHA (1)	SECTION (X/LB			., .	,	., .,		200	169.000	(3)	X/EB	9H1 000 40.030

(XEBB75)

ORB FUSELAGE
- 40A/B/C
11-073(0A14B)
AMES

							2 2 2			9								
							.,		5. 3	6 6.6			[513]	0513	Ş	, i		
ĝ						ě	7/6:	\$	• .	•	1000	969	6283	. 6501	. 6697			
(XEBB75)						2000	1.00 1.00 1.00	9.02	- G-83.	- 1693 -		0538	•	- 1664	1584			
						•		ž	.1080 -	- 1582 -	- 1369 -	1638	3989	9565	4175			
			1.0460			ř.		0402	•	•	•		2657 4588	- 80:1	3346 -		007+ 0296	
FUSELAGE			1.0180			* 501 P5		0771		• •	ii			1659	÷	0.00	, 105 223	
E 86			J666.		2858 2658 2658	σ		.:660		1845 2395	. cecc . co27	.0109 .1705	5111		2998	0656	•	3057
- 40A/B/C		I E CP	.9500	0911 1576	.3140 .3000 .3047 .2680	59624	E CP	.1580	•	• •	1 1		·	•	. 6533	. 9500		ii
- (841W0) - (1-0.148) -		IT VARIABL	.9210	.0127 0901 1527	3492 3148 3767 3625	۳ ج	VARIABL	.::20	 6	- 1747 - 1747	. 1231	.1604	. 2567		.2101	.9210	2186 2040 1300 .0313	
	. 332	DEPENDENT	.8790	.0126 0951 2111	4934 4500 4365 2740	BBO MACH	DEPENDEN ⁺	.0700		11424			. F441		. 1998	.8790	- 2626 - 2626 - 1519 - 0975 - 0190	- 1225 - 1258 - 1442
į	œ		.6210	.0856 .0527 .0743	0512 .1669 .4357	= -7.890	.,	.0460	. 1233 1233	. 0558 8050 8050	38.		.300€		.2583	.8210	. 24:9 253: 2759 3922	.4565
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	F.	.779	0159 .0002 .0330	.0218 .0341 .1216 .1359	TA (1)	띯	. 0230	0782 -	918	149.45 C. 25	מלאט. מלאט.	871.4.		.3157	.7790	1734 1808 0935 	2149 2508 2391
		R FUSELAGE	.7290	9701 0372	0361 .0097	H3 BETA	R FUSELAGE	0800.	.3061		2007	, .			.5730	. 7290	- 1219 -0287 -0186	0283
		170481158	. 5520	က် တို့ ရှိ ကို ရှိ	0364 0220 0164 0150	1. C.	1 JOPETTER	. 0000	1.0273						.0273	.6520	. 1375 . 0579 . 0197	. 1920.
APP AMP		50100	X/LB	79.000 70.000 90.000 105.000	120.000 135.000 150.000 165.000	ALPHA (2)	SECTION (N/LB		1000 1000 1000 1000	70.003 90.000	120.030 140.033	150,020	165 CC: 169. CC: 169. CC: 174. 000		87/X	70.000 70.000 70.000 105.000	• •

(XEBB75)

TABCLATED PRESSURE DATA - CAIMB (AMES 11-073-1) 10 FEG

CHI FUSELAGE AMES 11-073:041481 -1404/8/C

4855. 6155. 8815. 07E+. -. 5211 -. 3517 Ž 3783 -. 0453 888 -. 0552 2386.3 9393.-9393.-.3313 -. 0657 -. 2582 8 -.0931 -.:25: -.18+7 -.2142 -.2624 Q. 1339 11339 11462 1674 1674 1674 13372 13372 1.0180 1.0460 .2043 593.95 .1776 ეგგნ. - 1284 - 1938 - 1045 - 0779 - 0715 . : 650 O .9600 - 2555 .595∂4 . 1592 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .9210 . 1.20 -.0371 -3.863 MACH = 1 10° 1 . .8790 .0700 -7.893 . 2827 .8210 0007 N 7 M 0007 F M 6 0007 - P M 6 0007 - P M 6 0007 - P M 6 0007 - P M 6 0007 - P M 6 0007 - P M 6 0007 - P M 6 0007 - P M 6 SET OF Ħ BETA (1) .7790 . 1933 . 1583 . 5235 and particular to the particul SECTION (1) ORBITER FUSELAGE I CABITER FUSELAGE 7290 .. (1) 0800. . 350g 6313 M 50. # : i 1.081 3507:00 EL PITA

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-. 0332 1.28B

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-I.088a -1.3144 1.0463 . i 100 .4503 .4373 .3929 .6553 01.55. 37.75 . 225E4 0374. 000 X 9, 1,1 \$1.30 3633.

-. 0009 -. 0384 1.0180 .1519 .9990 9550 .9210 .8793 .8210 .7230

-.0861 -.1899 -.0-76 -.11.5 -.2033 -.2033 .0912 -.0038 -.0539 -.2268 -.2697 -.1150 -.2534 -.1871 -.1770 -.1735 1.000 .+07.4 .+173 .3258 921714 - 16617 Trail. . 2371 1.07.1 1.07.1 1.07.1 1.07.1 1.07.1 1,75 # 89 E

3594

3740 -.0306 - 32°-0 B 38 4 -. 035g -.0073 85739 **57.04.** .0097 -.0097 400.1 -. DD¥7 -. 2071 3497D - 3253 -.2271 ۲. پر - 2888 - 2888 - 2888 -.0334 -.0320 .3750 四古二 1. Dieta 「まる・ - 0383 - 0458 - 0537 .3763 -.037E - 17853 2356.3 2396.3 -.593; -.1173 -.2381 .3010 -.0576 -.0471 1.18 -.1213 -. 1130 -.:33 3010 -. 3646 -.0469 5.55 -.0662 - .2583 - .3583 - .3681 -. 1031 -.2423 -.2290 -.1036 -. 5年7 -.2893 . G .2040 -1.07B7 -1.2829 - 1169 - 1286 - 1473 - 2731 - 3977 1.0460 2040 593.85 1770 .0146 . 1278 1.0183 07.51. - 1838 - 1516 - 1516 - 1343 - 1412 - 1526 - 1536 . 1660 .3757 .4640 ว566 : 0044 -.3137 -.1312 -.1305 -.1787 -.2018 -.2525 -.1569 . 1653 O .1580 6376 -.0936 -.1537 -.0695 -.1354 -.1872 -.2104 -.2249 -.2127 .9600 .59624 .1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.1520 -.1284 -.0755 -.0298 -.0174 . 1120 -.2185 -.2387 -.0558 -.0463 -.2003 -.1908 -.1976 -.2072 .2073 .2474 .9210 4.247 MACH # .1120 -.1489 -.1376 -.1291 -.10771 .0700 - 1288 - 1381 - 174 - 0231 - 0036 - 0143 -.2593 -.2593 .0693 -.0235 . 2358 -.2527 -.2441 -.6215 .8790 -.1359 -.1513 -.1369 -.0851 -.0821 -.0821 .0700 -0799 -07480 -0580 -0380 -0805 -0805 -1645 .0460 -.2495 -.2463 -.1410 -.1490 .35.85 .35.69 .4100 .8210 .257. . 3460 SETA C 43 .0230 -.1675 -.1692 -.0197 .0737 3918 .3659 7790 1851 1255 1245 1245 2655 2848 .0230 THOROTHER MUSELAGE 11C9B1TER FUSELAGE . 0780 359+ 4375 -.0957 5934 .7230 F. 1184 mrzo. .0997 .0357 . 0093 1100 . 077 0000. 1.0728 44.0. 46.50. .6520 830 2002 1.0539 9101101 ***3:13**%) #17J X/1.5

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DATE 10 FEB	6. 6.		TABUL 41	TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	SURE DATA	1 - 0A14	B (AMES	11-073-	1)		•			PAGE 1145	1.45
				AME!	3 11-073	(0A14B)	AMES 11-073(0A148) -140A/B/C		ORB FUSELAGE		•	e co	(XE8875)		
ALPHA (2)	t	.e 770.	BETA (4)	u	4.247										
SECTION (1) ORBITER FUSELAGE	1102811	ER FUSEL	AGE		DEPENDEN	DEPENDENT VARIABLE CP	BLE CP								
B 1/X	. 0000	.0000	. 0230	.0460	.0700	.1120	. 1580	.1660	.1770	. 2040	.2510	.3010	.3780	0.4970	574
PHI 140.000 150.000			.3123	.2161	.1149	. 1492		.2600	-, 1493	4815	2902	1315	0613	0245	
162.000 165.000 159.000								.4041		-1.0754	2478	1308	0594	0225	
	:.0539	.5550	.3592	.2498	.2237	.235:	.588 .	.4136		-1.2911	2393	1222	0599	0239	
X/LB	,6530	.7290	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0463					
00000000000000000000000000000000000000	7.00724 7.00816 7.11865 7.0085	1135 1158 0555	-,1750 -,1635 -,0192 ,0286	2439 2364 .0939 .0879	2250 2754 .0298 0694	2188 2220 0260 0755	0908 1257 0834 1511		. 2316 . 1145	0049					
20.00 20.00 20.00 20.00 20.00 20.00 20.00	0327 0070 0067	0378 .0504	.1026 .1825 .2009 .1933	. 1426 . 3255 . 3793	3590 3415 3143 1860	2719 2432 2800 2932	2510 2509 2569 2630	3150 2602							
	•	į		•	!										

.5740

5740 -.0067 -. PE-1 **■ 4.8579** -.0375 -.0356 0.¥970 -.0084 -.0065 -.0341 -.0536 -.0584 Z Z -.0319 -.0423 -.0446 -.0726 .3780 -.0508 -.0958 -. 1024 2386.3 -.1211 -.1368 -.2810 .3010 -.0596 -. 1635 -.0787 -.1583 .2510 -.1117 -.2706 -.2716 -.1168 -.2978 ۵. - 1290 - 1419 - 1419 - 2336 - 3064 - 5288 - 5288 - 5480 - 5480 .2040 -1.0933 593.85 .170 -.3005 . 1660 -.1130 -.1500 -.2141 -.2433 -.2953 .1176 .3134 ø . 1580 .59624 DEPENDENT VARIABLE CP . 1120 -.1656 -.1467 -.1538 -.1531 -.1766 .0595 8.305 MACH -.1630 -.1651 -.1666 -.1426 -.1530 -.1768 .0700 -.0967 -.1080 -.1213 -.1142 -.1094 -.1056 .0460 .1362 BETA (5) -.0634 -.0735 -.0289 .0056 .0300 .0551 .0230 .2091 SECTION (1) ORBITER FUSELAGE .0000 .3369 ÷660° .073 .0000 1.0042 ALPHA (2) = . 000 8. 000 9. 000 9. 000 9. 000 9. 000 1.

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DATE 10' FEB 76

(XE8875)

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

8.305

BETA (5) #

.073

ALPHA (2) =

	.5740					4.8659		.5740	.0078	.0128						
	.4970	0576				•		0.4970	. 0065	6+00	.0039 0085 1558	1006	0887	0778		
	.3780	1003				PN/L		.3780	0226	0039	0115 0297 1663	1272 -	1168 -	- 1069		
	.3010	1659				2386.5		.3010	. 4840	0162		2082 -	. 1980	- 1789		
	.2510	2731				.		.2510	0768	0598	1442	4821	3486	2961		
	.2040	-1.2964	1.0460	0153		594.21		.2040	0853	1061	0899 1514 2216	5640	-1.2814	-1.5039	1.0460	. 0029
	.1770	·	1.0180	. 2380 . 1046		* 39		0771.					6160	•	1.0180	2632
	. 1660	.3182	0666	3087	9752	a		.1660	0.0970	104B	.0274 .0319	. 4665	07.44.	.2289	.9990	
	_															
JLE CP	.1580		. 9600	0950 1244 0989 1621	2909 2969 31;3 2680	.59640	LE CP	.1580						. 5053	.9600	0806
	.1120 .1580	. 1962	.9210 .9600		33592909 31982959 391931;3 38982680		VARIABLE	.1120 .1580		0337	. 1517 . 1719 . 2170	. 1847		. 1375	.9210 .9600	
DEPENDENT VARIABLE CP		.1756 .1962		2245 2382 1053 1659		MACH					255. 1519. 2555. 1719. 1715. 1	.1385 .1847			•	1960
	.1120		.9210	.246622822245 .231828522382 .06230030 .0079 .046911061063 .041422041629	-, 3369 -, 3198 -, 3919 -, 3898		VARIABLE	.1120	0651		2225 715.	•		.1375	. 9210	19601960
DEPENDENT VARIABLE	60 .0700 .1120	145 .1756	0126. 0618. 01	246622822245 231828522382 .06230030 .0079 .046911061063 .041422041629	.05114663359 .1144845863198 .373046863919 32593898	(1) = -7.904 MACH =	DEPENDENT VARIABLE	0460 .0700 .1120	01250651	0000.	3154 - 2174 3294 - 2226 3066 - 3107	35 .1385 .		. 1073 . 1375	. 0156. 08790 .0210	2022 1960 1960
DEPENDENT VARIABLE	.0460 .0700 .1120	.2145 .1756	.8210 .8790 .9210	.11631725246622822245 1580231828522382 .14110553 .06230030 .0079 .08590088 .046911061063 .0181 .041422041629	05114653,359 .144845863198 .373046863919 32593898	BETA (1) = -7.904 MACH =	DEPENDENT VARIABLE	.0460 .0700 .1120	01250651	0600. 8850.	3154 - 2174 3294 - 2226 3066 - 3107	. 1835 . 1385 .		3751. 5701. 8651.	. 8210 . 8790 . 9210	2022 1960 1960
	0230 .0460 .0700 .1120	.3114 .2145 .1756	01790 . 8210 . 8790 . 9210	.081111631725245622822245 .07501580231828522382 .124814110553 .06230030 .0079 .076508590088 .046911061063 .0161 .041422041629	.0457 .033405114663,3369 .0942 .144845863198 .0036 .1152 .373046863919 .121432593898 .0239 .1586 .2854	(1) = -7.904 MACH =	VARIABLE	0230 .0460 .0700 .1120	.067201250651	0600. 8850.	.5176 .3154 .2174 .5195 .3294 .2226 .4522 .3066 .2107	. 1835 . 1385 .		2023 .1598 .1073 .1375	. 0156. 0878. 0810	. 0202 0536 1231 2022 1960 0806

.4970 -.0176 -.0296 -.0963 .0255 .0137 -.0580 -.0480 -.0400 Ž .3780 -.0422 -.0507 -.1168 -.0041 .0073 -.0834 -.0685 -.0787 (XE8875) 2386.5 -.0321 .3010 -. 0062 -.0838 -.1140 -.1578 -. 1426 -.1698 -.0509 -. 1977 -. 2225 -. 3016 .2310 -.0589 -.4100 - 2999 -.2678 1.0180 1.0460 .2040 -.0717 -.0832 -.1070 -.1535 -.2316 -.2945 -.4007 -1.2508 -1.4635 .0072 -.0331 1.0460 594.21 ORB FUSELAGE .1770 1.0180 .0451 .2533 1694 ე666: .1660 -.0783 -.0876 -.0864 -.0432 -.0493 -.0484 4202 0444. 9990 .3293 -.3112 AMES 11-073(0A198) -140A/B/C .9600 -.0173 -. 1515 -. 1924 -. 1693 -. 2497 . 1580 .59640 DEPENDENT VARIABLE CP .9600 -.1712 -.1712 -.0398 -.1155 DEPENDENT VARIABLE CP .6101 .9210 .1396 .0374 -.0172 -.1234 -.1257 -.1111 -.0531 -.0865 -.0320 .0318 .0698 .0883 .1120 -. 1979 -. 1822 -. 0049 -. 0645 -.1526 .9210 = -3.864 MACH .8790 . 1687 . 1039 . 0328 -.1525 -.1810 -.2124 .1029 .0700 -.0446 -.0486 .0054 .1201 .1206 .1206 .1498 .1363 .1327 -.1963 -.2501 .1180 .0423 -.0433 .8790 -.2355 -.2169 -.2271 -7.904 .8210 . 278. 278. 1.135 .5442 .4105 .1431 .2274 .0460 .0178 .0417 .0903 .2012 .2135 .2135 .2258 . 1870 .8210 -.2052 -.2040 .1989 .2118 3953 3346 2332 . 1481 BETA (2) .1570 .2017 .1935 .1613 .7790 .0230 .1140 .1496 .2999 .3874 .4057 .4174 -.1128 -.1073 .0153 .0553 .3050 .2252 .7790 . 1935 . 2389 . 2368 BETA SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE .7290 -.0908 .0020 .0080 -.0557 .0081 .5164 .5630 -.0606 4403 .7290 -.1349 -.0:63 4.023 4.026 -.1637 -.0840 -.0691 -.0560 -.1716 . 6520 .0000 -.0101 -.6212 -.1331 1.0585 1.0586 .6520 .:188 -.0367 ŧ ALPHA (3) ALPHA (3) PH1 70.000 90.000 1105.000 120.000 135.000 150.000 165.000 20.000 40.000 55.000 90.000 120.000 140.000 151.000 151.000 165.000 165.000 165.000 165.000 165.000 165.000 165.000 .000 70.000 70.000 90.000 10.000 11.0.000 12.000 B | 3 Ē

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PAGE 1147

DATE 10 FEB	B 76		TABULATED	ш	PRESSURE DATA	1 - 0A14B	(AMES	11-073-1	•					PAGE 1	1148
				AMES	E 11-073(0A148)		-140A/B/C		ORB FUSELAGE			(XE8875)	375)		
ALPHA (3)		4.026 BI	BETA (2)	a.	-3.864										
SECTION (SECTION (1'ORBITER FUSELAGE	ER FUSEL	AGE		DEPENDER	DEPENDENT VARIABLE	BLE CP								
X/LB	.6520	. 7290	.7790	.8210	.8790	.9210	.9600	ŭ666°.	1.0180	1.0460					
PH1 165.000 180.000	0220 0290	.0599	. 2052 . 1896	5262.	0035	1441	2529								
ALPHA (3)	μ	4.153 BI	BETA (3)	n	.177 m	MACH	.59640	o	# 29	594.21	<u>.</u>	- 2386.5	S RN/L	•	¥.8659
SECTION (I 1) OPBITER FUSELAGE	ER FUSEL	AGE		DEPENDENT	IT VAR: :BLE	BLE CP								
X/LB	. 0000	.0080	. 0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
PH1 . 260	1.0680	.5284	.1159	.0285		į	•	0691		0678	0507	0274	0006	.0255	.0237
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149.000			.e774	.1721	. 1021	. 1495		.3422	0572	4558 6359	3564	1469	0629	0344	
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			0167	3176				•		.2510	0097	.0043	2095	F/65.1	80/ *	÷.3340	2879		
			.2040	-1.7102	1.0460,	.0129 0149		593.97		. 2040	0174	0188	1489 2261	1.4597	F/80.1	1.3964	-1.6013	1.0460	.0211
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9 76		1.	1.10PB1TER	.6523	3059 2275	2193 0770 0592 0541	9.00	110PB:TEP	.0000	1.0238		1.0238	.6520	.32673	-, 1471								
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TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	AMES 11-073(0A148) -140A/B/C ORB FUSELAGE
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				4.8657		.5740	.0722	.0893														
				•		.4970	.0752	.0302	1023	0808	0447	0461		0596								
ı				RNZ		.3780	.0428	3500·	1248	38	0675	0673		0777								
				2386.7		.3010	.0110	0278	757		1627	1482		1539 .								
				•		.2510	.0173	. 0928	2870 -		3593 -	0462.		282								
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		0666.		ø		.1660	0157	0554	1570 1639 757	1095	.2200	•	.3125	. 2962	1 0606.				.3117			
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£ · 1949 - 1215 0794. .1395 .1302 N. N. .3780 -.2022 -. 1579 3780 3660 .1167 (XE8875) 2396.3 .3010 -.1614-.1880 -.2393 .3010 -.2943 .0687 -. 1882 .0875 0150 -.2377 -.2623 -.4182 -.329: -.6218 中一十二 .8510 .0505 .0439 -.4815 .2040 -1.5629 1.0460 .0446 .0474 .0383 -.0988 -.1544 -.3712 -.3712 .2040 -1.980: 99. ORB FUSELAGE .1770 1.0180 .305t .1770 .3676 -.2828 . 1660 .3377 .1064 9990 . 1660 AMES 11-073(04148) -140A/B/C .1580 -.0384 -.1170 .0153 -.0851 .5018 .9500 . 1580 .59636 ပ DEPENDENT VARIABLE CP DEPENDENT VARIABLE -.1424 -.1060 .1638 .0521 -.0048 -.1814 -.1996 -.1672 -.0648 .1120 6000. .1120 .9210 .0151 0956 1466 0741 0741 0344 MACH -1108 1818 1796 11186 .1588 .1737 .2234 .1804 .1125 .0819 .0700 -.2278 -.2845 -.3356 .0700 -.0609 .8790 -.0801 940 M .5383 .3016 -.0850 .0460 -.0891 -.0811 -.2347 -.2751 -.0593 .8210 .2328 .2888 .2888 .3235 .2758 .2069 .1600 <u>_</u> ລ .0230 90+0 .0246 .0562 .0569 .0506 .7730 .0028 .0264 .0007 .0509 .0529 . 0230 # 601 # 150 # 150 # 150 # 150 # 1761 -.0520 HE TA BETA 110RBITER FUSELAGE LICHBITEP FUSELASE -.2253 -.0573 .0090 .0999 .0002 .7290 .0900 -.1982 -, 0930 .8004 12.003 11.984 .0020 .1205 .1801 -.4145 -.3033 .6523 0000 9466 -.4353 SECTION (A_PHA (5) 1.0117 L at Pitta 87//

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PAGE 1157							•		C79+.	. 1394	. 2580	1853 1533 1259	0170	0587	0753			
	375)						1/76		3780	8 7 63.	. 5239	1665 1578 1563	3791	- .2689	07.5			
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TABULATED		BETA ' 3	LAGE	.7793	1079 0589 0589	. 1558 . 1357 . 1558 . 1558	A T A T I	35	.0230	3885 3557	2946	141.00 141.00 140.00 14	.0:65		:603:	.7793	# 4 6 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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3.75		n n	139611	.6523	 	W 80000	ή. 	3139E01	000	936.					: 63 19 19 19 19 19 19 19 19 19 19 19 19 19	.6523	5 6 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1729
6 6 6 6 7		ALFIA (5)	SECTION :	X/LB	1388 1388 1388 1388 1388 1388 1388 1388		(i) - af (i) 4	2 (1) (1) (2) (3)	on F	୍ଷଧ	88			8186	CL. Ce	on ÷		. 음년경 - . 금병기 -

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

				7.1		5743		1295	1157	· }															
				£.867		•		•	•																
				و ري		0.55		1330	.5315		82.3	1.08 1.08 1.08 1.08 1.08 1.08 1.08 1.08	6717		5931	٠. يا ما									
				3/28/5		.3783		33.3	0115		67.27		6.67.		0869	1263									
				• 2386.3		.3010		.C+91	1230		6253.	\$5.0.1	1637		1576	7:6:									
				4		83.50		0319	2085		2	3765	3+16		30%	3292									
		1.0460		594.09		.2040		.0216	- 5-2 : - 1530	3271			6-59		-1.3763	-1.7936	1.0460		.0165	0436					
		1.0180		* 59		.1770								3511	•	•	1.0183		. 3038						
		3666.		ø		.1660		.0395	1410	2848	- 2305 - 2350	- 190B	7670.		. 1940	. 1450	. 3390					100	76+2.		
	BLE CP	.9600	253+	.59536	91.E CP	.1590										.3669	.9600	1	- 0432	7007	- 148B			3033 3308	2893
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4.2.4	130+13d30	.8790	2619	8.307 M	OEPENDE*	.0700			יין מילים. הייהם. ר		- 1715	1671.	1383			0721	3790		9711	יינייני מיינייני		30-9		- 4715 - 5186	
# 5		.8210	452 4 .	ດ. ແ		.0460			ວຸ ຄ ຄຸຄຄຸດ ຄຸຄຄຸດ				0+80"-			0536	.8210		2863	n er	. 45	en.		459. 3393	
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r.	P FUSELAGE	.7290	2901	14 BET	P FUSELAGE	E 000 .		. 3565.			age J.	}				7480	77.90		(1) (1) (2)	8.74		•	. 1721	34C7	3326
	63.18d0:1	.6520	# 100.1 #100.1	 	31194011	0000		; (1) (1)								.8759	0253	6	9 A 0 C 0 C		· 1989		- 1+52*+		- 1580
ALFHA (5)	SFCT:0% (87.X	12 mg	A PUR		a; x	T	٠,	7 (3 · 9 (3)))))))))))))))))))))))))))))))	ា ព ប្រ. រាក្រ	7 0	(7) ((1) (7 CT C	9 () () (5)) (- (- (- (- (- (- (- (- (- (- (- (- (-	00000000000000000000000000000000000000	00000000000000000000000000000000000000	X /, §	± - 1 1 : - 1				5. 00 5. 00 5. 00 5. 00		(1) (1) (1)	144 CO

מיש מי שבשט	76		TABULATED	ĭ	٠	- 0A14E	- 0A148 (AMES 11-073-1	11-073-1	_					PAGE 1	1159
				ŧ		, (8 a;	-140A/9/C	ORB F	FUSELAGE			(XE8976)	•	05 AUG 7	1 57
		SECTIONNE DATA	.								_	PARAMETR1C	C DATA		
	MEY EM	ביינו ביינו	t						*	č	9	מטט טויי	CPTRRK		.000
SAEF = 26 LAEF = 4 BREF = 9 SCALE = 9	2550,0000 474,8000 936,0660	50.FT. IN.	XMRP YMRP 1 H	375	. 3600 IN.	222 222				58.5	BOFLAP # R-ELVN #	-11.700	L-ELVN MACH		10.000
 	+00.4-		BETA (1)	# 	3.853 MA	MACH .	1.3930	o	= 598	598.57	<u>.</u>	- 440.65	RN/L	•	2.9057
SECTION ((1) CPBITER FUSELAGE	R FUSELA	IGE		DEPENDEN	DEPENDENT VARIABLE	RE CP								
×.:8	. 0336	.0080	.0230	0940.	.0700	.1120	.1580	.1660	.1770	.2040	93.0	.3010	.3780	.4970	.5740
PH1	t 0 0 1	n F	7906	0.752			•	0540		0241	0157	0301	0353	0641	0572
80.00 80 80.00 80 80 80 80 80 80 80 80 80 80 80 80 8	0 1)))		400.		0743	•	0525		0691	1796	1508	0876	0950	0639
100 cc			5587	3170		2322		. 2301		. 1389	1923	1017	0595	.0207	
000,000 000,000		.9472	7582	.6126	.4572	4275. 150		.2936 .5733		.0857	1724	3378	1283	0268	
140.030 150.030			.7389	.6181	.5019	.5517		1.0189	7440	+501	2956	1712	1077	0547	
157.000									.8053	1502	2523	1679	1185	0858	
165.000 169.000							1591	1.0405							
174,033	1.4837	1.0321	.7307	. 5896	.5070	.5549		1.0050		- 2552	2877	1480	1257	- 1009	
x/LB	.6520	.7290	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
1Hd	0239	3263	0452	0984	1644	2101	2613		4382	4511					
70,707 70,000 00,000 000,100	- 57679. - 6797 - 6913	.0507	. 0472 - 0472 . 0551	. 2001 . 1986 . 1586 . 2459	1509	0400	1395 0288 0545	•							
) ((.0366	.0512	.3588	.2896	1570.	0577		1875 1464							
180.000 180.000	-, 3864	.0411	.404.	.4220 .4165	1116	1911									
189,000	0155	.0187	. 3849 . 3805	.4183	.4878	.3043	£								

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				•	:	1								})
				AME 1.	=	-073(0A14B)	-140A/B/C	0 8	FUSELAGE			XEE	(XE6876)		
_	11 = -4.00		BE * (2	н	161.	MACH .	1.3930	o	≥ 598	a.57	۵	# 440.6	ın	FN/L .	2.9057
SECT: ON	T1890(1)	TER FUSELAGE	AGE		DEPENDENT	VARI	ABLE CP								
87/X	.0000	.0080	.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2040	.2510	.3010	.3780	3764.	5470.
	1.4912	.6913	.2116 .2461 .3902	.0770 .089. 4089.	.0058	0569		0519 0457 0531		0328 0476 1161	0096	0216	0350	U O	
5000		8328	. 1940. 1940. 1940. 1940.	.3073 .3073 .3820	. 2211 . 2311 . 2381 . 3689	.1377 .1743 .3761		.1525 .2074 .4716		5550. 0756. 7110	2494 2451 1912	1694 2434 4116	1000	# # # # # # # # # # # # # # # # # # #	
			.745E	. 5913	9644.	5,142		.9530	.6568	-,0912 -,1824	3058	1879	1.1	+ G. C.	
10,000								1.0457	.7354	-,1539	2853	1529	1275	3776	
(,)	1.4918	1.0183	.7361	.5817	.5152	.5554	1.1462	1.0321		3053	3065	1089	1203	8860 -	
B -	.6520	.7890	.7790	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0463					
#1 40.000 90.000 90.000 105.000	0172 0443 0591 .0575	0184 .0771 .0349	0412 0630 0006 1548	0970 0970 2355 .1893	1658 1692 .1109 .0648	2096 1275 .0083 0019	2665 2074 1338 0606		4395	4558 3262					
29.000 45.000 50.000 50.000	1650. 2000. 2000. 5400.	.0605 .0+40 .0581	.3013 .3979 .4059 .4145	.3974 .3974 .4190	.0220 .0779 .1672	1167 .0162 .0983	1269 0201 .0235 3078	2130 1994							
PHA (1)	# ·	38 86	BETA (3)	<i>3</i> ·	.275 MA	MACH .	1.3930	0	598.57		•	440.65	17:28	•	0.0000 10000
SECTION (110PB17ER	R FUSELAGE	ige GE		DEPENDENT	IT VARIABL	PLE CP								
X/LB	.0000	.0090	.0230	.0460	.0700	.1120	.1580	. 1660	0771.	. 2040	.2510	.3010	.3780	0794	
000	מין די מי	.6559		. 3591 . 355		0430		0503	• •	.0358	0104		3363	+370	0639
55.000 70.000 60.000		5.5.2	# # # # # # # # # # # # # # # # # # #	. 0836 . 1569 . 2083	. 0256 . 0992 . 1352	0492 0055 . 0564	•	0382 . 0449 . 0980	• •					0788 0118	0391
(3)			90	.4318	.2791	.2726		. 3567	•	1129	3125 2603	3065	1555 2412	0250 0797	

<u> </u>	
3 (AMES 11-073-	
TABULATED PRESSURE DATA - 0A148	
BULATED PRESSU	
TAE	
CATE 10 FEB 76	

.5740 2.9093 PAGE 1151 4970 -. 120B -.1112 PA/L -.1438 .3780 -.1776 -. 1284 (XE8876) 441 83 .3010 -.1855 -.1342 -.1575 .2510 -. 3209 -.2918 -.3125 .2040 -.2310 -.2727 -.1721 1.0460 -.4667 598.64 ORB FUSELAGE .1770 1.0180 .5527 -.4480 1.0013 . 1660 .8745 1.0176 -.2476 9990 O AMES 11-07310A1481 -140A/B/C 1.1156 -.2946 -.0993 -.0615 . 1580 .9600 1.3913 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.2077 -.1317 -.0163 -.0504 -.1937 -.0590 .0122 .1120 .5368 .9210 . 4441 MACH .0700 .402B .5156 -.1674 -.1708 .0932 .0403 -.0685 .0283 .1218 .3470 .8790 986 ų . 5525 -.0353 -.0856 -.2385 -.2080 -.1891 .0460 .5784 3511 .8210 .42.46 3 BETA (1) -.0466 -.0382 .0053 .1479 . 0236 6890 7405 .7790 .3461 .3678 .3678 .3737 BETA SECTION (1) OPBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.0173 .0080 .7290 -.0272 .0101 0239 1.0003 3495 . 0244 . G23 -3.983 .0000 -. 0346 -. 0209 -. 0479 .6520 -.0120 -.0201 -.0235 3.4745 .0232 RIPHA (1) 4 PHA (2) 40.000 100.000 100.000 110.000 110.000 130.000 130.000 130.000 87.X EU.X

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.0108 -.0475

-. 3+63

-.0615

-.0332 -.0357 -.036

-. 25574 -.:0673 -.:1490

-.3742 -.1610 -.3294

-.1682 -.1555 -.1215

1.0000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1

-.0155 -.0045 -.0045 -.0045 -.1637 -.350 -.3707

-.0064 .0414 .1618 .2352 .2645 .3713

0749 0889 1609 2390 3352 3352

1648 1900 2456 3782 4335 4777 5409

.3699 .3699 .5403 .6530 .7549

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ម្តីក្រុម ប្រជាជាធិប្បវិទ្ធិក្រុម ប្រជាជាធិប្បវិទ្ធិក្រុម ប្រជាជាធិប្បវិទ្ធិក្រុម ប្រជាជាធិប្បវិទ្ធិក្រុម ប្រជ ស្ត្រាស់ ស្ត្រាស់ ស្ត្រាស់ ស្ត្រាស់ ស្ត្រាស់ ស្ត្រាស់ ស្ត្រាស់ ស្ត្រាស់ ស្ត្រាស់ ស្ត្រាស់ ស្ត្រាស់ ស្ត្រាស់ ស្

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(XE8876)

TABULATED PRESSURE DATA - DAIH8 (AMES 11-073-1)

DATE 10 FEB 76

LAGE
FUSEL
ORB B
ر 9/د
-140A/B/C
0A148
1-072(0A148)
AMES

A. PHA (2)		.029 BR	BETA ()	•	-3.866										
SECTION	SECTION (1:0881TER FUSELAGE	ER FUSEL	AGE		DEPENDE	DEPENDENT VARIABLE	BLE CP								
X/LB	.0000	0800.	.0230	.0460	.0700	.1120	.1580	. 1660	0771.	.2040	.2510	.3010	.3780	.4970	.5740
PH1 180.000	1.4913	.9005	. 6032	.5050	.4038	.3643		.9661		3139	3+28	2049	1921	6960	
X/1.8	.6520	.7290	.7790	.8210	.8790	.9210	.9500	0666.	1.0180	1.3460					
PH 000 000 000 000 000 000 000 000 000 0	- 00054 - 00050 - 00050 - 4510	.0093 0713 0251	.0047 0157 1334 6900	0409 0489 0441 	1051 1253 .0514 .0593	1494 0511 0245 0231	1940 1655 1420 0888	į	4038 3870	4165					
180 000 180 000 180 000 180 000	-, 0216 -, 0302 -, 0352 -, 0253	0197 0018	.2736 .3351 .3220 .3183	.3324 .3265 .3265	.0338 .0338 .0490 .4021	1188 0321 .1126 .2231	1387 0222 .0421 2624	1906 1906							
ALPHA (2)		033 86	BETA (2)		. 181 MA	MACH =	1.3913	σ	= 59(598.64	Q.	* 441.83	3 RN/.	ci H	. 9093
SECTION (ECTION (1) CRBITER	ER FUSELAGE	AGE		DEPENDENT	IT VARIABLE	BLE CP								
X/LB	. 8699	.0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	0402.	.2510	.3010	.3780	. 4970	C) 7.
PH1 .000 20.000 43.000	1.4952	.8090	. 3328 . 3541 . 4747	. 1665 . 1826 . 2109	.0812 .0835	.0318		0132 0101 .0024		0016 0150 0258	.0109	.0415	. 5028	020 .0394	e750 -
55.000 75.000 95.000 175.000		.7759	. 5570 . 5929 . 6295 . 6593	2955 3772 3710 1613	. 2265 . 2420 . 3175	. 0995 . 1444 . 1744 . 2951		. 0956 . 1641 . 2291 . 48581		. 1011 1253 .0511 .0585	2161 2180 2051	-,1384 -,2226 -,3911	- 1084 - 1509 - 1679	0444 0465 0655	
. 4 3. 030 :50. 035 151. 030			6149.	.4835	.3746	.3504		. g422	אַנאַצ	0612	3612	2489	1561	5070-	
162.000 155.000 169.000							Š	1.0199	7093	2080	3334	2175	1669	0730	
180.000	1.4952	.888	6419.	.4831	4814.	.3691	9.60	0466.		3622	3576	1676	1650	0740	
X/LB	.6520	. 7293	.7790	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
PH1 .000 40.000	-, 603. 4703.	.0179	. 0081 . 0042	0355	1020	1495 0664	2065		4041	4219					

DATE 10 FEB	8 75		TABULATED	P. P.	SSURE DATA	A - 0A148	(AMES	11-073-1	_					TAGE.	5011
				AMES		11-07310A148) -	-140A/B/C	ORB FI	FUSELAGE			(XE8876)	<u>و</u>		
ALPHA (2)	ņ	033 BE	BETA (2)	11	181										
SECTION (110R91TER	ER FUSELAGE	4GE		DEPENDENT	NT VARIABLE	BLE CP								
x/LB	.6520	.729c	0677.	.8210	.8790	.9210	.9600	ე666 .	1.0180	1.0460					
90.000 90.000 100.000	0036 .0237	0991	1292 .0168 .1622	.0568 .0976 .1301	.0206 0307 1261	0571 0623 1223	1677 1108 1471	19K							
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5:10. - 0044 - 0097	. 0259 . 0256	29.59 29.39 20.18.0	3312	.0006 .0764 .1:11	1545 0367 .0489	2236 0398 0326 3034	2328							
41		029 Bi	BETA (3)	n	4.255 M	MACH =	1.3913	o	* 596	598.64	L	441.83	RA'/	•	.9093
1011011	110981TER	ER FUSELAGE	AGE		OFPENDENT	NT VARIABL	BLE CP								
x/18	. 3303	. 0080	. 0230	.0460	.0700	.1120	.1580	.1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
1Hd	1.4838	7914	.3256	1524	.0873		·	0183		0150	.0018	1710.	₩800.	0294	0370
		1	3237	. 1541	.0687	.0136	•	0135 .0035		0253	.000	0213	0069	0527	0327
95.000 70.000 97.000		.6227	.4566 .4891 .5237 .5689	. 2264 . 2699 . 3810	.1517 .1563 .1527 .2395	.0395 .0695 .0879 .2160		. 1032 . 1566 . 1566		. 0553 0353 0451	2613 2788 2778	- 1973 - 2804 - 4609	1556 1750 1923	0508 0536 0687	
			.5907	.4528	.3276	.2973		.8629	Ç Q	2649	3732	. 06+Z'-	2038	0859	
								.9693	.6288	2197	3709	1896	1980	0953	
	1.4838	. 8684	.6160	.4743	.4138	.3619	1.0828	64.50		3316	3473	2167	1746	1049	
877 X	.6520	.7290	3677.	.8210	.8790	.9210	.9600	. 9990	1.0180	1.0460					
PH	0185 0169 	.0193 1224 0655	840000 8400000 840000000000000000000000	######################################	1038 1075 0509 0579	1517 0709 0850 1050	2111 1586 1900 1426		4181	-,4349					
	88. E	\$685.	1 - t 10 tu + 10 tu +	. 2867. 5852. 5852.	0791 0051 763	2217 1042 0346	-, 3205 -, 1446 -, 1153	2863							

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)	AMES 11-07310A1487 -140A/B/C ORB FUSELAGE
DATE 10 FEB 76	

				2.9174		5740	.0.62	.0310							
						3764.	. 0232	M 6	7.0916 7.0918	0 ; · · · ·	. 395.	08;a			
				- SS-		.3780	. 0524	.0390			- 1633	. 2054			
				= 442.29		.3010	. 0347	. 0239	0497		2812	2449			
				•		.2510	7650.	.0593	1.1415		3654	3913			
		1.0460		599.88		0+02·	.0325	.090 .090 .090 .090	. 1577 . 2131 . 1849	1001	2574	3637	1.0460	2747	
		1.0180		• 539		.1770				i i	.7382		1.0180	3734	
		ა666.		o		. 1660	.0417	. 0852	. 1785 . 1914 . 2659 7775	9679	1.0138	1626.	0666		2495 2495
	BLE CP	.9600	3364	1.3919	BLE CP	.1580						1.0265	.9600	1253 1028 1420 1753	2211 0921 0308 6604
	NT VARIABLE	.9210	.0561	MACH =	NT VARIABLE	.1120		. 1351	. 2355 . 2555 . 25155 . 25155	.2939		, 2654	.9210	0789 .0253 0773	1671 1323 .0429 .1698
.255	DEPENDENT	.8790	.2477	-3.871 M	DEPENDENT	.0700	.1588	. 2563	.3383 .3256 .3256	.3039		.3082	.8790	7.0353 7.0551 7.0239 7.0585 7.1054	0167 0265 0576 2828
t. :		.8210	.3116	Ð		.3460	2648	. 3519 9175	. 454. 4689. 4683.	.3849		4059	.8210	. 0225 . 0215 . 0950 . 0520	.2314 .2358 .2358
BETA (3)	ASE	.7790	.3046 .3133	BETA (1)	#GE	.0230	8244	. 6334 . 6334	. 7051 . 7051 . 7051	.5764		Ω, Ω,	0677.	.0597 .0590 -2073 -1717	2018 2288 2286 2287 2295
029 Bi	ER FUSELAGE	.7290	J 550 .	.951 8	ER FUSELAGE	.0380	.9293		5778.			0797.	. 723C	.0456 1545 0373	-,1090 -,3033
	110881158	.6520	# # # # # # # # # # # # # # # # # # #	N.	1159B1TER	000	M 					1.4813	.652g	. 01338	0953 0597 0348
ALPHA (2.	SECT:ON (X/L9	PH1 165,000 180,000	ALD4:4 (3)	3 7011035	77.7	### ##################################			147,000 150,000 151,000	182.000 185.000 185.000	60.3 10.1 2.1	83 1. x	FHI 1000 70 000 70 000 70 000	170,000 135,000 157,000 165,000

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REPRODUCIBILITY OF LIE PRINCE IN POOR

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- 0A148 (AMES 11-073-1) TABULATED PRESSURE DATA ŭ CATE 10 FEB

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• •	DEPENDE	.0700	.0704	.8790	.2321 .2137 4658 3147	2027 2121 3845 .1633	.190 MACH	DEPENDENT	.0700	.4659	.3067	.2283 .1H70 .0458	.0626		.0829	.8790	.2315
		.0+60	.1459	.8210	.3241 .3368 4699 2010	.0891 .0395 .1516		_	.0460	.6111	.5680	.3246 .7739 .1692	7160.		1197	.8210	.3384
	e Se	.0230	. 1534	.7790	.3437 .3851 5315 3774	1078 0345 1855 2061	TA (2)	ñ	. 0230	.8085 .8116	.6316	.5304 .4779 .3589	. 2292		.1616	0677.	.3554
	I TOPBITER FUSELAGE	.0000	.3205	.7290	.2931 ,4497 -,3171	1950 3209 0958	17 BETA	7 FUSELAGE	.0080	2653		.5677			.2854	.7290	. 2909
	1 'OPB!TE	. 0000	1.3294	.6520	.2728 .3130 2615 1480	2154 2972 1288 0817	- 15.917	1) ORBITER	. 0000	1.3 27 1					1.3327	.6520	.2641
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ORB FUSELAGE

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AMES 11-073(04148) -140A/B/C

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1:0N (1) ORGITER FUSELAGE - 6520		.8210	4695 2652 0883	0385 .0154 .2648 .2845			.0460	.5986	. 4842 54842	. 2220 . 1837	. 1269		. 1265
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ORB FUSELAGE AMES 11-073(0A148) -140A/B/C

4.290 ALPHA (6) = 15.907 BETA (3) =

SECTION (1.0PBITEM FUSELAGE

DEPENDENT VARIABLE CP .8210 0677. 0857. .6523

.9990 1.0180 1.0460

.8790 .9210 .9600 .2778 -.0807 -.3671 -.0587 -.1050 -.1079 -PHI 155.000 180.000 X/LB

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TABULATED PRESSURE DATA - OA148 (AMES 11-073-1)

PAGE 1175

Ä	•		.000 10.000 1.250	; ;	3.0204		.5740	0556	0752													
2C 2HE 7E					# 1/W/L		.4970	1016	1298	.0176	.0105 0269	0726	Š	. 0613	0951							
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	* 3.0204		4970 .5740	09860554 09910592 0034 0674 0674	= 3.0204		0465. 0764	10300668 09030344 0143 0211 050e
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-073(0A148)	MACH	ENT VARI	.1120	0343 0750 .0750 .0754 .2403 .25792 .5792 .0378 .0378 .0378 .0378 .0378 .0378	MACH .	INT VARIABL	.1120	0520 0352 .0352 .0351 .7290
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AME	٠ (5		.0460		3 1 2		.0460	
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			•	·	•	.9373	-		.3072 3072		IEEN		0619 1706 2353 2793 5141		.681
-140A/B/C			.1580			1.0484	.9600		2628 1524 1318 3680		CP 15.80			•	
\$10A1481			.1120	.5183		.6042	.9210	2500 1634 0613 0944 1258	2402 1164 0589 .0314			i d	. 3354 . 3354 . 3354	.5232	
5 11-07	.275	DEPENDE	.0700	.4300		.5474	.8790	2016 2023 0860 0148	1555 0475 .0659 .2861		DEPENDER	.0731	. 1356 . 3275 . 3375 . 1720 . 1720	14251	
AME	Ħ		ð	.5582		.5963	821	201. 202. 302. 193.	.0407 .4263 .4578 .5150	-3	.0490	.1635	3768 3768 48767 7477 6477 6477		
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		R FUSELAGE	.0080			.9987	.7290	-,0214 -,0155 -,0450	.1423	w	7 FUSELAGE .0080 .	.7642	9769.		
	-4.020	10RBITER	0000			.4125	6520	0101 0138 03. 03.	.0577 .0160 .0059	Ġ.	JORBITER . COCC	.4285			

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PAGE				.4970	0821				٠ •		M970	0628	0782	0408 0423 0506	0582	0532	0563		
	(778			.3780	2086				1 RN/L		.3780	0314	0333	1403 1652 1633	1909	2091	2:36		
	(XE8977)			.3010	248				= 552.51		.3010	+300°-	0564	1827 2873 4899	3211	2467	2192		
				.2510	4325				۵.		.2510	.0341	0380	3175 3118 2768	4737	4038	4684		
				.2040	4297	1.0460	5192 3383		599.58		.2040	0.00.00.00.00.00.00.00.00.00.00.00.00.0	96.40	.050	3353	3326	+.4804	1.0460	5320
<u>-</u>	FUSELAGE			.1770		1.0180	5024		. 59		.1770				8	. 6196 . 6196		1.0180	5083
11-073-	ORB			. 1660	.8805	.9990	i C	2456 2456	ø		. 1660	.0204	.0473	. 1814 . 2109 . 4293	.8576	.9370	.915¥	0666.	
B (AMES	-140A/B/C		BLE CP	.1580		.9600	2151 2132 2301 1401	1308 0469 0131 3164	1.2451	BLE CP	.1580					!)	.9600	2393
A - 0A148	11-073(0A14B)		NT VARIABLE	.1120	.5198	.9210	1776 0598 0578 0529	1293 0301 .0655 .1631	MACH	NT VARIABLE	.1120	0200	0550	. 1992 . 2405 . 4099	.5015		. 5322	.9210	1796
RESSURE DATA		. 963	DEPENDENT	.0700	.4229	.8790	1233 1360 .0731 .0473	0497 0226 .0497 .3688	.176 M	DEPENDENT	.0700	.0998	1212	23.73 23.71 23.79	.3793		7524.	.8790	1242
0	AMES) = -3		.0460	C+0+.	.8210	0473 0457 .1768 .1479 .1854	.3755 .3711 .3745	"		.0460	1591	.2046 .2046	3582 3582 .4581	4164.		.4878	.8210	0453
TABULATED		BETA (1	AGE	.0230	.6115	0677.	.0089 0119 1782 0496	.3352 .3918 .3820 .3766	BETA (2)	AGE	.0230	.3061	W103	5772. 5773. 6150.	1249.		.6251	0677.	.0107
		012 8	ER FUSELAGE	. 080	.8847	. 7290	.0175 1095 0426	0145 .0482	168 +10-	IR FUSELAGE	.0080	5787.		.7532			.9761	.7290	3×53.
9 76		,	110RB'TER	. 0000	1.4286	.6523	0147 0183 .0:06	0026 .003¥ .0030		1) CRB1 TER	0000.	1.4336					1.4336	.6520	
DATE 10 FEB		ALPHA (2)	SECT: ON (X/LB	PH1 180.000	ĕ7,×	្តា ១២២១ ១០១១១១១ ១០១១១១១	14 14 14 14 14 14 14 14 14 14 14 14 14 1	ALPHA (2)	SECTION	X/LB	1900 1900 1900	200.03.	79.000 79.000 120.000	100.000 100.000	3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	190.000	X/LB	1.1 0.00 0.00 0.00

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				AMES		11-073(04148)	-140A/B/C	ORB FI	FUSELAGE			(XE8877)	2		
A. P.A. 12.	h C;	1:4 BET	TA (2)		.176										
SECT:04 /	110931TER	R FUSELAGE	JSE 13E		DEPENDENT	NT VARIABLE	BLE CP								
X/LB	ರಿಕ್ಟರ	.7290	.7790	.8210	.8790	.9210	.9600	υ666·	1.0180	1.0460					
6665 6655 6655	8400°-	1099 049:	1245 . 0809 . 2130	.1758 .1285 .1252	. 0208 0208 0934	0937 0923 1614	2550 1635 1942	i de la companya de l							
១០០០០០០ ១០០០០០ ១០០០០០ ១០០០០ ១០០០០		.0866	3017 3260 3478 3637 3760	.1706 .3712 .3773	0822 .0010 .0639 .2939	1851 0923 0154	2275 1240 1015 4559	2922 2922							
# End (2)		026 BET	TA C 3)	#	. 255 R	MACH =	1.2451	O	= 599.58		# a.	552.51	RN/L		3.0183
SECTION (1.099175	TEP FUSELA	AGE		DEPENDENT	NT VARIABL	BLE CP								
⊕7.×	. 2633	.0380	.0230	.0450	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
	900 11 11	6757.	30.6	.1624	. 1033		·	0038		.0210	.0273	0018 -	.0278	0700	0599
			. M. 100 100 100 100 100 100 100 100 100 10	. 1445 . 1538	. 1037	0003		7.55 7.55 7.55 7.55 7.55 7.55 7.55 7.55		0122	0210	- 6240	0384	0872	0326
		1919.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 2158 . 3715.	. 1455 1455 . 1455 . 2254 . 2254	.0369 .0969 .321 .3210		.0892 .1180 .1386 .3234			3575 3724 3652	2347 - 3360 -	- 1791	0499 0472 0543	
			8:65.	.4531	.3173	.4427		T#17.		1.30	+6+4	2708 -	2318	0635	
								.0885		3338	-,4793	2309 -	2287	0733	
	8614.1	.8571	.6245	.4839	.4188	.5106	1.0143	. 8969		+8++	4187	. 08.4g	2086	0841	
E 17.4	3 2-33.	.7890	3677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
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PAGE 1180

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1) 4.255 BETA (3) = . 026 ALPHA (2) =

SECTION :		LICHBITER FUSELAGE	LAGE		DEPENDE	DEPENDENT VARIABLE	ABLE CP								
X/LB	.6520	1290	. 790	.8210	.8790	.9210	.9600	0666	10.00	6940 -					
FH: 155.000 180.000	5500 6400	9860.	.3532	.3795	. 2203	0125	3696								
ALPUA (3	5) = 3	. 997	BETA (1	1) = -3	3.868 M	MACH	1,2451	c		ç G					
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αο ∴	5000	.0590	.0230	.0460	0700.	•	-	200		i i					
ä)	000	0001	2//:	0+02.	.2510	.3010	.3780	4970	.5740
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			. 510. 1363.	3519	.3284	. 1397		1160		55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	. 0265	1110.	.0465	0229	.0086
		1608.	9 <u>16</u> 3.	1004.	+ M.	3557		. 2553 2553 2553		1336	2275		0775	1129	
			.6567	£234.	.3208	3856		5169		. 0954	2189 2012	1393	1357	1765	
151.000 151.000			.5708	.3973	.3035	. 3965		9668.	1000	. 2550	5184			1017	
185-183 185-18								i i	. 6506	3799	4710	3639 -	2085	0816	
190.000	1.4202	.7531	. 4688	.4359	.3093	6+14.	1.0092	356.							
/LP	.6520	.7290	0677.	.8210	.8790	.9210	.9600		0	י המחני	4 /be	2983	2341	0550	
ind d									3						
10.000 0000	. 0352 . 0551	5173.	. 0392				1420	·	4702	4860					
ក្នុង ក្នុង ក្នុង	0593 0293	0.1.1 0.1.1 0.1.1	. 25572 . 2015 . 7000.	0328 .0521 .1:67	03121 03131	-1158	1.1904 1904 1904	•		3193					
180.000 180.000 180.000	-, F93 9	+.0954	.2353				יי מל	3549							
יים לי המין הקר הרכי	0166	. 0583	. 2643 . 2643	. 2645	- 6435-	- 1337	ı	. 6940							
93.03	0855	9101.	2539 2537	7:4:4			3161								

ED PRESSURE DATA - DAINB (AMES 11-073-1)	ANES 11-073(0A148) -140A/B/C ORB FUSELAGE (XE8877)	* .182 MACH * 1.2451 0 * 599.58 P * 552.51 RN/L * 3.0187	DEPERDENT VARIABLE CP	0462. 0784. 0875. 0105. 01055. 0405. 0771. 0301. 0511. 0700. 0340.	2854 .1810	2001	3457 - 1369 3457 - 1369 - 1751 - 2655 3659 - 2316 - 1912 - 2419 3934 - 2577 - 3187		.5972 3810299729979146 3810451129979146	. 3872 . 3205 . 4246 8803 5380 5168 2693 4246	.8210 .9730 .9600 .9600 1.0180 1.0460	.037703520994162547194945 .05910520 .0170153043843221 .0599059014292804 .0343103515672119 .0724209922012530	.10571174266226453248 .2930047715371984 .4026 .017007331557 .4323 .00007-95	= 4.246 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0187	DEPENDENT VARIABLE CP	0453 0724. 0845. 0105. 0185. 0405. 0771. 081. 081. 0811. 0070. 0840.	077;	.0463 .0134 .0086	\$060 . 6541 .
- 0A148 (AMES		•	VARIABLE	•					•	6666 .	. 9600	1625 1530 2834 2119	.26622645 .15371984 .07331557	•	ABLE	. 1580 .			
ESSURE DATA -	MCS 11			. 0070.	1810	25.00	23.55 63.55 6.55 6.55 6.55 6.55 6.55 6.55	. 2853		2 .3205.	. 0679. 0	0352 0520 0590 1035	- 1174 - 6477 - 2273	.246 MACH	VAR	. 0070.	077:	1720	
TABULATED P?	•	BETA (2) =	ELASE	. 0230	. 4261	• •	មាក់ មាក់ មេក មេក មេក មេក មេក មេក មេក មេក មេក មេក	•		. 5322	58. 0677.	0. 1011. 0. 1011. 0. 1017.	8000 1000 1000 1000 1000 1000 1000 1000	BETA (3) =	LASE	.0230 .0	•		o chings
P		3.539	TYOUBLIER FUSELAGE	.0000 .0083	1.4242 . 8978		2727.			6(5) 2525	.6520 .7293	.0390 .0829 .0532 . .0770 - 1891 - 0839 - 1343	01530342 .0005 .0043 .0243	• 3.983 E	1) OPBITER FUSELAGE	0600: CCGG:	1.4339 .8359		Data.
DATE 10 FER		ALPHA (3)	SECTION .	X/LB	# 5 5 # 5 5	88	388				877.8	# 10000 # 100000 # 1000000 # 1000000	306385	A_PH2 (3)	SECT : ON .	κ ω	38	្រា ពព មកព មក ១៣៤ ១៣៤	, ()

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(XEBB77)

ORB FUSELAGE

AMES 11-073(0A148) -140A/B/C

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

5740 5740 0530 4073 3.0238 0Lān. -.1555 -.1632 -.2958 .0+63 -.0637 -. 26e0 COT. - . O5+4 .C.23. - 1:33 -. BB. RNA -.2178 .3760 -.0655 -.1310 -.4397 -.2307 .3920 -.2449 .3780 .1165 -.2220 -.2356 552.75 .3010 -.3218 **STTS.-**-. 2911 -.0656 .3010 . 0953 .0859 -.4107 -.4902 .2510 -.5262 -.4556 -.1902 -.2329 -.2082 -.5185 .0980 .2510 .127. -.5647 -.5251 -.3880 .2040 -.3018 -.503ª -.5020 .2040 -.4317 1.0460 599.64 .1770 -.4809 .5146 1.0180 .1770 .6258 . 1660 -.3963 .7637 .8614 .e597 . 9930 . 1660 8734 ø . 1580 -. 1909 -. 1434 -. 2344 -. 2793 -.4276 -.2635 -.2291 -.38059600 .1590 1.2449 DEPENDENT VARIABLE CP DEFENDENT VARIABLE CP -.3429 -.2169 -.1479 -.0579 .1120 .3329 .3579 -.1817 9210 . .1120 2533 8743 25478 2593 2593 2553 MACH -.0378 -.0491 -.0829 -.1337 .0700 .2305 .3099 - 1353 - 1343 - 0488 .8730 .0700 -3.859 .35+0 .8210 .835. 855. 857. .0460 .3813 .0372 .0533 .0140 .0118 .3032 .0460 Ħ BETA (3) -.0230 .5059 7790 2555 2555 2718 2665 2665 0,5, .0230 4595 SECTION : 110RBITER FUSELAGE SECTION (1:CRBITER FUSELAGE -.2045 . 0090 .7153 .0843 .7293 .0959 -.0169 . 6380 1.0123 .0534 .8:65 3.653 1.3976 .0126 52.8 -.0122 .0300 .65.23 1,4339 .0330 A-P-A (3) A. Ph. . +1 BJ/X

71179.

.8993

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

2ATE 10 FEB 75

PAGE 1183

5740 .0563 5750 .055 -.0702 -.0486 -.2054 -.1737 -.1721 .4970 -.0476 1640. .0321 -.0643 ž -.1336 -.1916 -.3810 -.2136 .3780 .3780 .0925 .0861 -.2283 -. 2201 -.2000 (XEBB77) 552.75 -. 3259 .3010 -.3052 .3010 . 1063 .0746 -.1417 -.1791 -.4651 -. 3402 -.4325 -.5503 -.5137 -.2305 -.2578 -.757. .2510 . 83.63 . 1069 .1157 -.4996 -.5632 1059 1067 1356 1358 11514 1004 1009 10787 -.5314 -.4256 -.5793 2040 -.4609 -.2935 .2040 1.0460 1.0460 599.64 -.4470 ORB FUSELAGE -.4391 -.4171 .1770 1.0180 1770 .5443 .5824 1.0180 .9990 1219 1274 1562 1644 2016 2499 .8978 9880 .1660 .8087 . 1660 8157 8531 Ø AMES 11-073(0A148) -140A/B/C -.0905 -.2909 -.1823 -.1530 9600 . 1580 -.0798 -.0899 -.2639 -.2554 . 1580 .9290 .9600 MACH = 1.2449 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.0116 .0919 -.2519 -.1549 -.0525 -.0612 .1029 -.1482 -.1784 -.2961 .1120 .2160 .9210 .1120 1551 1908 1620 1675 1725 2068 .9210 .2073 +01.∵ .0563 .0301 -.0859 -.1710 -.1152 -.0860 .0195 .0389 .0700 .0700 2652 2672 2872 2887 2893 2893 2835 2017 2359 6193 .2214 .8790 .2057 <u>.</u> .1314 .1386 -.1465 -.0257 .0430 .8210 1381 2936 .3050 .0730 .1734 .2200 3964 +044 3643 3527 3428 3428 3265 .0460 .8210 .4235 .0460 . 20tt = BETA (2) . 2924 . 2799 . 1813 . 1810 - 3286 - 2831 3839 .0230 7793 .0230 .3701 4333 .7793 BETA SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELAGE -.2603 .0093 5959 7290 14. .5100 .6903 .0083 1.0239 .7293 .138: -.1667 -.0359 7.979 7.974 .1300 .1353 -.1353 -,0746 -,0849 -,0309 1.3907 .1262 .0000 6523 . 8000 .6523 -.1688 1.3907 1.3875 A.PHA (4) PHY (+) 2007 2007 2003 PHI 180.000 X/LB X/LB ır. X/LB

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

<u>.</u>

BETA (2) =

F.973

A. Pud (+) =

(XE**0877**)

					3.3238		0.5740	3640.	C440							
					• d	ı	0259.	St.	inco.	# (A) (M)	0517	er C	6552			
					FNVL		3780	6956	. 6534	1876 2391 2293	1955	2597	. 2365			
					552.75		.3010	9101.	.0595	1914 . 2338 . 5038 .		3:05	- 213 -			
					•		.2510	. :016	.0877	2633 3062 3445	5722 -	5551:5	- 2-6+.			
	1.0463				599.64		040Z.	.080 .000	27.00. 27.00.	. 1368 . 1368 . 1317		- 6024	- 1545	1.6450	4575 3123	
	1.0180				593		.1770				9093	•	•	. 0180 .	. 2534.1	
	JE56.		3369 3369		σ		.1660	. 1057	.0993.	. 1230 1230 1960 3879	.7581	.6337	.8298	0566.	••	4341
PLE CP	.9600	2335 2355 2315	3565 2469	- , 1954 - , 3637	1.2449	LE CP	. 1580					G	. 3406	.9530	1.1847 1.0695 1.3110 1.2938	
DEPENDENT VARIABLE	.9210	1894 2025 3179	2928 1937	-, 1302 -, 0051	MACH	T VARIABLE	.1120	120	(D) (D) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	. 1305 . 1305	. 1583		1895	.9210	- 6294 6779 - 6457 - 1932	
DEPENDE	.8790	- 1 31 5255.	1520 0908	0781	.245 MA	DEPENDENT	.0700	2557	100	1527 1527 1390 1008	5751.		. 6529	.8790	. 0492 . 0346 - 1450 - 1829 - 1807	
	.8210	1024 0145 . 0597	កាយ(១) វៈ (២) ស ប	(n)	<i>3</i> ′		.0460	. 390 6 456	1000	23.55 23.75 53.75 53.75	.2603		. 2852	.8210	1.1328 1.1459 1.1459 1.1459 1.1459	និង មិន្តិ
JOE SOE	.7790	3244 0419	(사 하 하 하 하 하 하 하 하 하 하 하 하 하 하 하 하 하 하 하	TA (3)	됞	. 0230	L) (וַ יִייִי וּ	100 to 10	. 3355		. 3974	. 190	1892 15157 1525 1625 10070	. 2920 - 5075
TR FUSELAGE	.7233	2537 1957	، ب	1050. EECC.	36 âL	P FUSELAS	0800.	: :		.528.			.570E	. 7293	. 2723 +	+.3565
11CPBITER	. 6523	1 () () () () () () () () () (ن ز	5 4 B	e e	31 i Sec : 1	0000.	19797					1.3797	. 5523	2002 H	21-5
SECTION (X/LB	######################################	11 111		A. P. C. A. C.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ej Š		(1()	(11111)) (, C)	© (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	600	Β	80000000000000000000000000000000000000	5000 3000 3000

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

12 -.0595 -.12.0 -.5651 3780 . 1656 1778 -.21.15 -.2758 -. 2397 (XE 9977) 552.28 -. 2551 -.0765 -.3522 .3010 . 1392 -.4525 -. 3463 .1591 -.1287 -.1765 -.2105 3185. .2033 . 1464 -.5635 -.5428 -.6351 1593 1593 1798 1798 2052 1272 1272 1551 .2043 -.4776 -. 5632 1.0460 0940.1 0810.1 0860. 593.63 OPB FUSELAGE -.4251 1.0180 0771. . 5981 . 5952 <u>. gn</u>30 .1550 .8655 8526 2577. O AMES 11-0731041481 -1404/8/C -.03%1 -.0322 -.2539 -.2679 -.3343 -.2317 -.2695 -.3616 .9600 -. 3905 .9551 # 1.2'45'4 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP . 0980 . 1635 - 2195 - 3935 -.287: -.1923 -.1543 .9210 .1120 -.1355 0126 1472 .127; -3.847 MACH . 1085 - 1085 - 1085 - 1555 .8790 .0760 -.1857 -.1477 -.0863 .1229 6778. 11. .8210 £504. . 1995 .8210 .0536 .1728 .3228 . Ը450 .1784 857A (1) BETA (31 .7790 1393 . 2233 . 25.3B 0977. 0 m 0 r n .60099 SECTION (1:0981TEP FUSELAGE SECTION (1:CRBITER FUSELASE .0037 (1000) (1000) £693. 277. ÷, £2° -2€9£° -1.1868 .4FE5 7,978 11.98 4081. - 2563. - 1708 -.0198 - 0359 00000. 00/24 - 1939 ALPHA (4) # EBRUS RABBAR X/LB m) (in i.,

1415 1940

1269 1357

CLEA.

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-. 3331

-.2085

- 1110 - CAGA - CAGA

PAGE 1186

90		3.0229		5740	. 1460	.1410												3.0229		.5740	5 :-	
7		RN/L		.4970	. 1297	.1093	282	2353	ě	20-3	0394									.1207	.0720	3150 2531 1495
	(XEBB77;			.3780	.1558	. 1483	1326	5655	000		1942							RN/L	ţ	.3780	.1155	2012 - 2427 - 3730 -
	(XE	552.28		.3010	.1577	.1340	1240	4445	c132 -		3260							552.28	9	.1509	1001.	1789 2077
		۵.		.2510	. 1411	.1590	1761	6021	5270		5789							•	Š	1388	1039	2091 2754 3339
		599,63		.2040	1719	7511.	1667	0630 3299	4629	i i		1.0450	1924	2860				63 P	0406	1625	- 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0778 0778
Filst, Act	0.25 LAUE	# 59		.1770					.573+		9	0810		- 4514				- 599.63	.1770)	•	
C)	ټ		. 1660	. 1971	2057	1985	.7526		.8669			•	•	.4387	•	•	5	1660		13:45 13:45 13:45	. 0531 . 1709 . 3985
-140A/B/C	i	1.6454	OLE CP	.1590						.8030	9500		.0401	0168 2605 3035 3249	٠,	2921 2271 3814	i č	ָּהְילֵים בּילוים בּילוים	***	•	• • •	•••
11-073104148)		۳ د	IT VARIABLE	.1120	.2281	. 1448	1539	.1337		. 1282	.9210		. 0584			. 325 . 707 . 1047	•	ARIAR	1120	2012	1891	. 05:48 . 0708 . 0934
5 11-073	200	<u> </u>	DEPENDENT	.0700	.3699	.3595	. 1972 . 1972 . 1231	. 1241		.1572	.8790		.1262	. 1125 . 2637 . 3126 . 3634		1417 0723 1620	200	o. G. G.	3517	1953	1192 1192 0826	
ANE				.0460	.5013	.4913	.3148 .3146 .2490	.1856		. 1931	.8210			.2034 .2034 .1015	•	~ M ~	.4523	ä	0.460		• •	. 2059 . 1882
	BETA (2		ي و	.0230	.6782 .6892	. 62347	######################################	.3212		.2683	0877.			.4326 .3462 .2123	•	.0257 .0168 .0750	1357 (3)		.0230			. 4109 . 3544
	970 BE	į	N FUSELAGE	. 0080	1.1338		. 6 162			.4427	.7290		.3118	.38+0 -	. 1331	5050.	`	FUSELAGE	. 0600	. 1189	•	 E464
		1100011	5	. 0000	1.3395					1.3395	.6520		. 1845	. 2-23	- ITEO.	.0546 -	11.95	DPS1TER	. 0000	3281 1		•
	ALPHA (5)	2 R011045	•	61/x	מ מי	100 00		' '	ကြွတ္တဲ့		e//e	i Hd		70.030 - 96.000 - 105.000	127. 00			ACTION (1)		4.000 1.	188	9.6 8.8

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TABULATED PRESSURE DATA - DAI'48

PAGE 1187

	3					0.4970			0509		0466		-,0862										
		(XE8677)				.3780			1887		1974		2189))									
		ij X				.3010					3352		3534										
						8 0.					5602		5262										
						.2040		16:0			4b58		5798		1.0460		4399	2961					
^ -	ORB FIRE ARE					. 173			.4612	. 4880				010			±195	4205					
					Š	1001.		.7634			.8292	i	hana.	9990						4611	3704.		
48 C AME:	AMES 11-073(0A148) -140A/B/C	ı		WELE CP	, and							. 9024		.9600		į.	1.00/4	- 45 P	2589			3976	
- A	3(0A14B)		:	ULPENDENT VARIABLE CP	0211			5.00.				C411	:	.9210		1020	15.30	2836	3068 4666	C004	2409		
JOURE UA	ES 11-07	4.260			.0700			. 1005				1489	}	.8790		1168						948	
<u>.</u>	AM.	3) = (5			.0460			. 1669				1940	1	.8210		.2125		1972			. 3535	4459	
		BETA (3	AGF	1	. 0230			. 2936				.2704		06//		THES.	.31:1		0807		.18:0	. 0684	
		11.962	ER FUSE		.0080							. t 17t	5067) to the		.2893		-, 2552 -, 2522		1053	6352	(495	
		ti	116=911		.000							1.3281	955			1767		-1:76		0457	0.0000 0.0000 0.0000		
		ALEHA (S)	SECTION 1 1109911ER FUSELAGE	;	X/LB	권	140.000	151.000	:52,030 165,033	169.000	174.000	180.000	X/LB		H	.000 .000	70.000	90,000	10.000 110.000	120,000 135,000			

047E 10 FE	E3 75		TABULATED	Œ.	RESSURE DATA	TA - 0A148	(AMES	11-073-1						PAGE	1189
				AMES		-073(0A148)	-140A/B/C	ORB	FUSELAGE			(XE8878)	878)		
ALPHA (1	* 1	.059	BETA (2	2) =	. 195	MACH =	1.0993	o	= 59	599.81	۵	- 709.06		RN/L .	3.1886
SECTION	(110PBITER	TER FUSELAGE	LAGE		DEPENDENT	ENT VARIABLE	ABLE CP								
X/LB	.0000	. 0033	. 0230	.0463	. 3700	.1120	.1580	.1560	.1770	.2040	.2510	.3010	.3780	.4970	.5740
	1.3397	.5539		.0835	.0126			0109		0476	0841	1426	1266	093	0180
			3024	2007	0123			1078		1850	1931	1917	1448	1065	0039
		.7529	. 5993 . 6953 . 6955	. 3602 . 3602 . 5132	2072 2347 3947	.1738 .2076 .4198		. 0532 . 0759 . 3045		0884 2003 1611	4737 4335 3989	2462 4091 6261	1187	0192 0236 0276	
			.7429	.6037	.5039	.5477		.7748	ţ	2581	5126	2845	2072	0187	
								.8743	.5390	4522	4519	2225	2228	0146	
	1.3397	1965.	7448	. 5382	. 5685.	.5947	1.0031	.8625		4804	5539	2048	2307	0132	
X LB	.6520	.7293	0677.	.82:0	.8790	.9210	.9600	0666.	1.0180	1.0460					
7	. 3519 . 3519 . 14041 . 1563 	0249 .1223 .1854	0791 0229 2540 3152	1504 1458 .3239 .3253	2031 .0404 0175	2595 1745 1428 1465 1790	3162 3119 3647 2373		6956	7081 4068					
	1809 1909 1991	.3234		. 2685 . 5338 . 5302	1811 0872 .0198 .2243	1914 0910 0317 .0218	- 2452 - 1352 - 1248 - 3646	3666 3666							
ALPHA TIN	1	.055 8	•	*	T	hACH =	1.0993	ø	* 59c	599.81	.	709.06	RN/L	a	3,1886
0 2011048	3116e0+1	IR FUSELAG	AGE		DLPENCENT	VT VARIABLE	BLE CP								
el ×	9900.	.0383	. 0230	.0460	.0700	.1120	1580	.1660	.1770	.2040	.2510	.3010	.3780	.4970	.5740
- 88	:.3215	.5+08	136:	6980°.		E 189		0168		7.0467	0899	1450	1370	1058	0225
			ញ្ញា (គ្រួ (គ្រួ (គ្រួ (គ្រួ (គ្រួ (គ្រួ (គ្គួ (គ្គួ (គ្គួ (គ្គួ (គ្គួ (គ្គួ (គ្គួ (គ្គួ (គ្គួ (គ្គួ (គ្គួ (គ្គួ (គ្គួ (គ្គ (គ្គ	. 1855 . 1895		. 0201		0614		- 1399 - 1464	1669	1935	1422	0920	. 0243
2000 2000 2000 2000 2000 2000 2000 200		5983	41727 4037 6693	. 1813 2449 .4102		.3181		. 0023 . 0045 . 1909			5318 5146 4911	3070	1173 1240 2167	0	

(XE8878)

1-073-1)	ORB FUSELAGE
	AMES 11-07310A1481 -140A/B/C

TO IT OF STORE THE POSELAGE (XEBB7B)	DEPENDENT VARIABLE CP	.0700 .1120 .1580 .1660 .1770 .2040 .2510 .3010 .3780 .4970 .5740	+9£0' 6+82'-	. 8274 5509 5509 5509 5509 5509 5509 5509 5509	• •	28773591 19393418 16993939 19312891 23392958	301335864163 20422295 15692246 07304120	MACH = 1.0990 Q = 599.71 P = 709.30 RN/L = 3.1896 ENT VARIABLE CP	0472. 0784. 0315. 0105. 0405. 0771. 0301. 03180 .3010	. 0250	. 1142	616641571764	. 8709 1959 3822 34109 3709
فعا			- 4824 - 481	- 428		6701		1.71	.2040	0068 0419 1119	.0415 0207 01111	0677 3709	-,4947
FUSELAG		.1770	.3617	5854.	1.0180	7113			0771.				
		.1660	.6916	.8274	.9990		4163 4163	o	. 1660	. 0250 . 3008 . 0272	. 1142 . 1681 . 2014 . 4235	.8258	8709
7/8/W0*1-		.1580		.9085	.9500			.0990 E CP	.1580	į į		·	
		.1120	.4915	u G U	.9210			H	.1120	.0199 .0704	. 2881 . 3286 . 4707	.5162	
•	CEPENDEN	.0700	1458	*) 0			A T					
: :			٠,	5593	.8790		2363 1671 .0508	2	.0700	.0505 .0500 .1091	3758	462 8	
i u		.0460	.5566	C107.		15352332 13392258 29740062 30250549	.15022863 .50391671 .6284 - 0508 .1498	* -3.863 MAC	.0460 .0700	.1710 .0605 .1709 .0500 .2251 .1091		.5324 . 452 8	
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PAGE 1191

TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

AMES 11-07310A148) -140A/B/C

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ALPHA (2)

ORB FUSELAGE

.5740 .5740 -.0212 .0065 .4970 -.0583 -.0520 -.3+18 -.0263 .4970 -. 0925 -.0431 -.0991 -.0303 -.0229 PN/ .3780 -. 2559 -. 1874 -. 1797 -. 1525 .3780 -.2393 -.0862 -.0824 -.2548 -.2034 709.30 .3010 -. 3023 -.2189 -.3156 -.6123 .3010 -.0895 -.2756 -.1223 -.3887 -.2971 .8510 -.5291 -.0333 -.4439 -.4339 -.3895 . 5000 +060.--.6190 -.5868 -. 5244 -.6038 .2040 1.0460 -.6441 .2040 -.5048 1.0460 -.**6826** -.3800 -.5851 = 599.71 -.6616 .1773 1.0180 1.0180 .1770 -.6630 -.4621 .5057 . 1660 .9990 .787. -.4655 .1660 .0339 .0256 .0026 .0672 .1056 0666 .8416 7611 . 1580 -.3532 -.2352 -.2442 -.1947 -.1227 -.1048 -.3500 .9600 . 1580 -. 2529 -. 2639 1.0990 .9669 .9600 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 Ħ -.1710 -.0567 -.1200 -.1302 .5102 .9210 -.1627 -.0674 -.0037 .1120 -.1662 -.0645 .0152 .0702 .1521 .2141 .2457 .3972 4839 5165 9210 AACH -.1440 -.1023 -.0103 .0700 .4635 - 1285 - 1323 - 0466 - 0753 .8790 .0700 .0717 .0511 .0906 .1951 .2315 .2427 .3504 -.1029 4093 .8790 .4631 . 186 -.0330 -.0397 .2700 .2764 .0460 .5068 .8210 .3017 .4374 .4108 -.0502 .4627 1691 1691 1980 2849 3215 3648 .8210 .0460 5040 .4951 BETA (2) .0230 .6157 .0356 .0376 .0527 .1699 0677. .0230 .402; .4611 2661 2645 4117 5023 5498 5349 5395 0080 0199 5242 3677. SECTION (1) ORBITER FUSELAGE SECTION (110PBITER FUSELAGE .0080 .8523 -.1393 .7293 .0535 .0162 1710 77:3. .0085 .7021 8546 . 189. EB T ----.000 .0428 .0428 .0428 .0878 3400 .07778 .0848 .1058 . 9000 1.3476 1.3502 1.3502 0255 .0981 .0981 ALPHA (2) 190,000 X/L9 X/LB のこと

TABULATED PRESSURE DATA - OAI48 (AMES 11-073-1)

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BETA (2)

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ALPHA (2)

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AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

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PAGE 1192

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TABULATED PRESSURE DATA - OATHR (AMES 11-073-1)
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PAGE 1193							1	0.4970	0541	0613	1077	0758	€190	0472]				
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11-0731041481		INT VARIABLE	.1120	.3741	.9210	0247 1861 2187	2868 2286 1524 0542	MACH # ENT VARIAB	•	.1699	. 2151 2151 2151	25.93 25.93 24.45.	. 3702		.3853	.0253 -
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ORB FUSELAGE

AMES 11-073(0A14F. -140A/B/C

TABULATED FRESSURE DATA - DAINE (AMES 11-073-1) 10 FEB 75

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5740 .4970 -.0415 -.0533 -.0538 .3780 -. 1937 -.1793 -.2050 .3010 -.5005 -.4219 -.4408 .2510 -.6670 -.7075 -. 7911 -.3063 .2040 -.7782 -.6586 -.6135 -.3694 1.0463 .1770 .3373 -.5958 -.5252 1.0180 .9990 . 1660 .6500 . 7268 .7086 .8186 .9600 -.1610 -.1391 -.4328 -.3703 -.4244 -.4063 -.4305 -.6197 .1580 DEPENDENT VARIABLE CP .1120 -.0022 -.0509 -.3309 -.1536 .3368 .3243 .9210 -.5239 -.3633 -.3493 -.2992 .0700 .0853 .1344 -.2429 -.3818 -.3966 -.25579 -.1993 .0054 .0892 .1502 .8790 4.256 . 1638 . 1901 -. 1452 -. 1251 -. 0578 .0460 . i 869 .8210 -.0554 .2919 .4575 . 1910 BETA (3) .2746 .2353 -.4699 -.3491 -.1346 7475. .7790 .0312 .1700 .2588 .2515 .2139 .0230 .2550 SECTION / 1:08BITER FUSELAGE .0080 .3313 -.4217 -.1115 -.0353 .7290 3348 -. 0424 11.958 .0000 .1102 .37.50 .34.43 -.1061 . **5**520 . 0454 ALPHA (5) A//B 8 t x

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		-4.070 E	ER FUSELAGE	.0080			. 8221	. 7290	2053 0466 .0035	.1534	38 S+5	R FUSELAGE	. 2080	.5288		.7291		
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SATE 10 FE		ALPHA (1)	SCOTTON C	X/LB	7H1 140.900 150.900 151.000	165.000 169.000 174.000	(1)	X/LB	PF1 C00 70.000 97.000 105.000	120.000 135.000 155.000 185.000	ALPHA (2)	SECTION 0	X/CB			90.000 120.000 140.000		

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ORB FUSELAGE TABULATED PRESSURE DATA - DAIWB (AMES 11-073-1) AMES 11-073(0A148) -140A/B/C -3.859# (1) BETA . Cus ALPHA (E)

5740 .5740 .0411 .05+7 .4970 .0088 .4570 .0372 .0253 .0493 .0443 .0306 .0259 .0278 0257 .3780 .0196 .3780 -.0045 .0041 .0196 .0212 .0246 .0345 .0314 .0319 1058.8 .3010 -.0542 .3010 -.0877 -.1129 -.1959 -.0534 -.0527 -.0592 -.0493 -.1574 -.8509 .2510 .2510 -. 1747 -.7262 -.7100 -.6820 -.2784 -.9468 -.8564 -.8824 O. . 2040 -1.0506 1.0460 -. 3236 -. 2854 .2040 -.1635 -.1795 -.2099 -.2546 -.3718 -.4088 -.5042 -.9156 -.9173 1.0460 599,75 .1770 -.4408 1.0180 .1770 .2780 .2780 1.0180 .9990 . 1660 .6016 -.2007 -.1491 -.1679 -.1855 -.1333 -.1105 -.0974 . 1660 . 6628 .9990 .6393 G .9600 .1580 DEPENDENT VARIABLE CP .89957 .1580 -.5165 -.4226 .9600 DEPENDENT VARIABLE CP .1120 .9210 -.3571 -.2657 -.3726 -.3784 .3477 .1120 .192 MACH = -.1412 -.1072 -.0273 .0353 .0656 -.3576 3540 .9210 .0700 .3173 -.4370 -.3362 -.2387 -.0863 -.1344 -.0695 .0367 .0740 .0909 .8790 .0700 -.2610 .2614 .3199 .8790 .0460 . 3534 .8210 .0460 .0078 .0045 .0195 .1627 .1628 .2081 -.2631 .8213 .3527 3541 BETA (2) .0230 .4674· .7790 .3156 .3156 .3168 .2168 . 0230 0827 1076 2435 3423 3928 4377 - 1459 **14980** .4805 .7793 SECTION (1) CABITER FUSELAGE SECTION (1)CPBITER FUSELAGE .0090 . 7244 .7290 -.2354 -.1504 .0705 -.0740 -.0193 .0809 .0090 .5317 . 5834 7149 .7290 -.0687 .ς. Ω. 1.8225 . 0000 .6520 .07.86 -0.03.8 -0.069 -. 3510 0000. 1.2273 -.0177 -.0573 .6520 1.2270 ALPHA (E) PHI 180.000 180.000 X/LB W/LB

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

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			1.0460					599.75		.2040		1661 1805	2021	3263 4978 5671	7850	8486	-1.0620	1.0460	.3582	2156	
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(0A14B)		DEPENDENT VAR: ABLE	.9210	4491 4187 4729	4957	3450	C/ /3.	MACH ==	T VARIABLE	.1120		1373	1071 0712	0325 0194 .1376	.2535		.3325	.9210		3079 4986 4900 4900	
5 11-073	. 192	DEPENDE	.8790	2449 3183 4356	5031	3906		.260 m	DEPENDENT	.0700	ti C			0230 0154 .0936	.2052		.3123	.8790		1745 3056 3914	
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TABULATED PRESSURE DATA - OAIWB (AMES 11-073-1)

ORB FUSELAGE AMES 11-073(0A148) -140A/B/C m BETA (4.017

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.5740 .4970 .0148 .0091 -. 0004 .3780 .0532 .0425 .0473 .3010 -. 3352 -.2363 -.2729 .8510 -.7025 -1.0220 -1.0027 -.7144 -. 9443 .2040 -.9625 -1.1068 -.3320 1.0460 .1770 -.4871 1.0180 . 1660 .4660 . 5800 . 9390 5762 -.2351 -.2358 . 1580 .7346 -.5072 -.4667 -.4219 -.6115 .9600 -.5775 -.5709 -.3945 -.2175 DEPENDENT VARIABLE CP .1120 .2139 .2696 .9210 -.3497 -.3031 -.5033 -.5033 -.6403 .0700 .1308 -.1313 -.1313 -.4096 -.5378 .2136 .8790 -.6277 -.5411 -.4370 -.2376 .0460 .2196 -.1890 -.1609 .0013 .0003 .2358 .8210 .1096 .3324 .4505 .3215 .0230 .3379 .3583 -.0609 -.0423 -.1307 -.0599 .0564 .1696 .1848 .1933 .7790 SECTION : 10091TER FUSELAGE . 0383 8+10· 1.83:1 . 574Bit .7290 .0367 -.1199 . 0261 .0000 . 06810 . 0787. -. 0787. -. 0181. -. 5520 -,0483 -,0407 - 0563 1:1938 -.0893 Fig. 600 (55) 000 (51) 600 (62) 600 (63 B7/Y

5740 .1570 .1979 3.5825 .4970 .0021 -.0148 -.1521 .1255 . 1220 -.0168 -.0291 PK'L -.0884 -.1010 .3780 .0443 .0686 -. 1446 -.1567 1058.1 -.1798 .3010 .0109 -. 0082 -.4623 -.5107 .2510 -.0749 -.0493 -.5064 -.6068 -.6499 -. 6200 -.6162 a. .2040 1.0246 1.0246 1.0241 1.0241 1.0830 1.1627 1.2502 1.3702 -1.0143 600.17 .1770 **2609** . 1660 -.0041 -.0050 .0237 .0458 .0454 .0558 .6166 5948 O .90017 . 1580 DEPENDENT VARIABLE CP = -3.857 MACH = . 1120 .0334 .1087 .1466 .1559 .1682 .2039 2108 .0700 2351 2351 2351 1997 1997 1530 . 1266 .0460 2761 2003 3003 3364 3095 2095 2095 2095 2095 .1538 BETA (1) .3739 .4168 .5219 .5519 .5201 .4914 .0230 3003 SECTION (1) ORBITER FUSELAGE .0030 .8:23 6361 7.937 .0000 1.1732 ALPHA ! 43 70 (200 40,000 55,000 30,000 30,000 140,000 151,000 151,000 151,000 151,000 151,000 13 T/X i

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AMES 11-073(0A148) -140A/B/C ORB FUSELAGE TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

: = 7.937	BETA (1) = -3.	-3.	ķ	.857 DEPE	ģ	NT VARIABLE	BLE CP								
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PHI 90.000	1.1732	.4263	5412.	. 1551	.1364	.2100		.5146		8357	6301	5062	1128	.0116	
x/LB	.6520	0627.	0677.	.8210	.8790	.9210	.9600	0666.	1.0180	1.0460					
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ि । जारत	" L	38 756	BETA (2)	•	.192 MA	MACH	.90017	ø	• 600	600.17	a.	- 1058.1	FN/L	P 1	.5825
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ď;	0250	7200	.7790	.82:0	.8790	.9210	.9600	9666.	1.0180	1.0460					
	(3 g h; f ul 	1260	. 0195 . 0433	0993 0615	1520	3121	4743		4868	3468					

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AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

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5740 1453 1644 -.0359 -.0154 -.0158 OTE+. .1203 6:30. 979. .0171 ć -.1073 -.0866 -.0859 . 8538 .3780 .0233 -.0745 -.0633 -. 0925 1058.1 -.2674 -.1991 -.2639 30:05 -.0339 -.1005 -.4532 -.4568 -.4630 -.6699 -.7718 -.7099 25.0 -.0605 -.1635 -.7175 -. 7220 -.6731 α 1.003:5 1.005:2 1.005:2 1.005:2 1.005:4 1.005: 1.0460 . 804.0 -.8645 -.3676 -.1940 -1.0401 1.0460 600.17 081011 06661 .1779 -.5069 1.0180 -.20047 -.0889 -.0375 -.0375 -.0934 -.0967 -.0872 . 1660 . 4555 54.10 .9990 O .9600 -.5143 -.5471 -.5454 -.4264 -.3600 -.3024 -.2109 71006. .1580 - 4788 - 4504 - 5585 - 5605 - 5445 - . +1893 - . +184 - . 3459 .9600 DEPENDENT VARIABLE CP .6961 DEPENDENT VARIABLE CP -.4218 -.3839 -.4159 -.4498 -.3565 -.3646 .9210 .1120 .0157 .0252 .0089 .0158 .0369 -.3247 -.2815 -.4394 -.4053 .9210 . 2124 MACH -.2309 -.5238 -.4597 -.3776 -.1640 .8790 0700 -.1667 -.1029 -.3177 -.4275 -.5339 .0592 1308 -.6233 -.493: .8790 4.250 -.0348 -.0348 .8210 . 2002 . 2599 . 3951 - 1079 - 0741 - 0835 - 0932 - 0770 .1928 .1762 .1762 .1223 .0910 .339; .1472 .8210 .0460 .1337 BETA (3) -.3422 -.1959 -.0557 .0007 0631 .1126 .1139 .7790 33578 33533 3400 3042 5734 6753 .0397 .0286 -.3463 -.2:54 .0230 6045. -.0701 .0522 .1051 .779∂ CECTICK (110ABITER FUSELAGE C INCRBITER FUSELAGE -.6055 -.4649 .7293 . 8089 -.2261 F. : 3778 -.0594 .8015 .3357 3338 .0915 -.5763 .7233 -.2192 - 3987 7.926 -.3064 -.2452 -.2356 6523 .0000 1.1657 . 1425 . 1496 . 3024 . 3340 .6520 1.1657 U1711. -.0959 n [+ . K.: 12] * **20110**13

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5121 364E	FUSELAGE (XEBB79)	573.14 P • 1059.2 FN/L • 3.5769		0472. 0784. 0875. 0105. C185. 0+05. C77;	. 0655 . 03 27 . 0603 . 1154 . 1928 . 2285 . 0451	. 01490491 . 0055 . 0867 . 1619 . 2513	-1173 -5270 -2225 -1822 -5813 -2079 -6509 -2085 -1844 -5713 -2405 -7201 -4221 -3103 -1312		943 9159593654592084 .0865	E ⁻¹ 0603654872196242	0180 1.0463	i i		599.14 P = :059.2 RN/L = 3.5759		0473. 0784. 0378. 0105. 0155. 0405. 07	.0204 .0504 .1056 .:869 .	056012120750 .0350 .1233 .22:0 1469	:7415972320322561234 28167267225321260771 44046703358324950521
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	(XE8B79)		1	.3010	5274	5610		5590				
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-	OP9 FUSELAC.			0771.		1611.			1.0180	5624		
11-073-1				. 1660	+124.		.5320	.5139	.3990		- 138 - 138 - 138	+ 2994 + 1
(AMES	140A/B/C		LE CP	. 1580			0000	BACO.	.9500	4387	5303 5303 5732	6739 5659 4306 2439
- 0A148	CA148) -		DEPENDENT VARIABLE CP	.1120	.1358			. 1595	.9210	2781	5062 5189 6210	6085 4943 4772 4145
UPE DATA	AMES 11-073(CA148) -140A/B/C	4.265	N30:43e30	.0700	0105			.0530	.8790	1101	- 3453 - + 130 - 5373	5257 32613 1958
ATED PRESSURE DATA - 0A148 (AMES 11-073-1)	AMES	ţı		.0460	.0501			.0524	.8210	0300 0057	1154 1162 0725	0314 .2221 .3289
TABULAT		BETA (3)	H H	.0230	.1356			.:257	.7793	. 1127	- 21.53 - 1.53 - 1.53 - 1.53 - 1.53	- 5000 - 1010 - 1010
			P FUSELA	. 0080				. 2331	.789C.	.167:	1 1 2 M CO	
ស្ថ		= 11.956	311860:1	. 0000				1.1093	.6533	<u> </u>	5 th	E 1011
E		ALPHA (S)	SECTION (1109811EP FUSELAGE	x/:e	000 000 1000 1000 1000 1000 1000 1000	000 000 000 000 000	3 (7 (3 (1) (3 (4) (4 (1)		⊕. *	12 00 00 00 00 00 00 00 00 00 00 00 00 00	(app) (app) (b) (c) (c) (d) (d) (d)	CEUPEC COMON CON COMON CONON COMON CONON CONON COMON CONON C

(XE8BB0) (35 AUG 75)	PARAMETRIC DATA	RUDDER = -10.000 SPD9FK = .000 BDFLAP = -11.700 L-ELVN = 10.000 R-ELVN = -10.000 MACH = .€00	P * 2385.0 RN	!	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1362100408480716	28152103175215441504	1.13830131 .0546 .089713830458 .0319 .0789	325811200439	2523136206300299	2324 - 140208344385						
Lu			595.86		. 2040	1626	1, 0, 10, 1 1, 0, 1 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	-, 1308 -, 1828 -, 1486	3518	9558	-1.1916	1.0460	1 2000	3366			
ORB FUSELAGE			# 55		.1770				į	.2517	·	1.0180	2600	3248			
			o		. 1660	1835	. 3770	0428 0134	.5584	.5639	.3557	0666	•	•	3098	. 1978	
-140A/B/			.59728	3LE CP	.1580						.6977	.9600	3450	3114		- 1917 - 1786 - 1797	.2027
(0A14B)		X0 X0 20 20	MACH #	DEPENDENT VARIABLE	.1120	7.206 =	3227	.1339	.3408		.2796	.9210	3193	_		1838 1238 1085	
AMES 11-07310A148) -140A/B/C		76.6800 IN. .0000 IN. 75.0000 IN.	-7.858 M	DEPENDE	.0700	2309 2875	- 3098	. 1480 .2011 .3473	. 3359		.2849	.8790		1818 1241 1413		- 1584 1343 .	
AME		= 1076. = 375.	#		. 0463	2272	029 - 0499	.3307 .3307 .4554	4112		.3385	.8210				8454. 8454.	.3269
	ITA	XMRP YMRP ZMRP	BETA (1	13E	.0230	2232 1990	.0217 7375.	4444. 5439 6167	.5638		.4318	0677.		1839 .0071 .0652		1000 1000 1000 1000 1000 1000 1000 100	.1684
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TABULATED PRESSURE DATA - OATHB (AMES 11-073-1)

.5740 -.0737 5750 -.0721 PAGE 1215 -.1112 .4970 .0539 .0539 -.0532 .0058 .0040 -.0074 -.0503 .¥970 -.0793 .0313 .0313 PR/L .3780 .0238 .0024 -.0139 -.0704 -. 1219 -.0257 -.0353 .3780 -.0626 -.0012 -.0194 -.0432 -.040.--. 0824 (XEBBB0) 2386.0 2386.0 .3010 -. 1449 -.0464 -.0874 -.2064 -.0828 -. 0954 -.1084 -.1072 .3010 -.0767 -.0839 -.0991 -.1186 .2510 -.2115 -.1882 -.2250 -.2376 -. 2823 -.2157 -.2024 -.2247 -.2948 -.2948 .035 -.1123 -. 1045 .2040 - 1428 - 1768 - 2735 - 2083 - 1971 - 2767 - 2767 - 2781 -1.1579 -.9317 -.1382 -.1591 -.2265 -.2314 -.2550 -.3650 1.0460 .2040 595.86 ORB FUSELAGE .1770 . 1508 . 1876 -.3593 1.0180 .1770 -.1706 -.2062 -.3119 -.1866 -.1142 -.1057 . 1603 .5005 . 5559 9990 .4590 - 1642 - 1831 - 2515 - 2157 - 1859 - 2003 .1660 0 AMES 11-073(0A148) -140A/B/C . 1580 -.1916 -.2485 .7048 .9600 -.2585 -.2122 -.2089 -.1832 DEPENDENT VARIABLE CP .59728 . 1580 DEFENDENT VARIABLE CP -.2466 -.2670 -.1479 .0043 .0354 .1120 .3129 -.3153 -.2334 -.1923 -.2057 -.2532 .9210 -.2691 -.1777 -.1710 -.1536 .1120 -.2233 -.2331 -.1807 -.0739 -.0651 MACH 2506 2506 2506 2509 2509 2509 2515 3515 .0700 -.2526 -.1809 -.1635 -.2037 .8790 -.3107 -.2258 -.1710 .3182 .0700 .2320 .2426 .2426 .1166 .3431 .3219 . 183 -. 1938 -. 1990 -. 0083 . 1239 . 2077 . 3656 .0460 3995 -.2600 -.2129 .0454 .0841 .8210 .3622 3029 .4144 .4362 .0460 ..1858 ...093 ...0659 ...0290 ...0290 ລິ <u>@</u> . 1988 . 3335 . 4657 . 5757 .0230 -.1802 .4699 .7790 -.189C -.1731 -.0331 .033: .1854 .2653 .2653 .2394 .2394 -. 1849 -. 1714 -. 0313 -. 1133 -. 2157 -. 2598 -. 2598 .0230 BETA BETA COPPLIED FUSELAGE SECTION I LISPOINER FUJELAGE .0080 1650 5970 -.0539 .7293 -. 1434 .0.63 .723: .0329 .0090 (D) † 7.7.3 584 -4.062 -4.051 .5000 1.0429 -.1175 -.1865 -.3379 -.0307 6240.1 .0483 .0304 .0221 .0165 0000 1.0483 ALFILL C 13 P. Phys. C. B. m X 67.3

BETA (3) =

-4.361

ALPHA ! !! =

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

(XE8880)

.3815258910060324 .8836893610672865 .327206510272866 .328403683194509280307 .9210 .9600 .9990 1.0180 1.0460 .3141346836652513 .22552981 .316028722307 .359836692610 .359836692610 .35982610 .36952610 .35982610 .36952610 .36952610 .36952610 .36952610 .36962610 .36962610	.59728 Q * 595.86 P * 2386.0 RN/L ABLE CP	1739 1741 2183 2398 2398 2398 2814	£050
-,3160	9728 Q CP		5858. 5858.
	.258 MACH DEPENDENT VAR	- 2251 - 2329 - 2329 - 1530 - 1301 - 1280 - 1180	
2239	BETA (4) = 4 LASE 		
185.000 .0394 190.000 .0394	10N / 110R317ER FUSELAGE	1.030a .1493	000 000

73-1)	
48 (AMES 11-073-	
JRE DATA - 04148	
ABULATED PRESSURE DATA - (
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.5740 .5740 -. 044B -.0928 PAGE 1217 0.4970 -.0503 .0037 -.0614 .4970 -.0071 -.0725 -.0744 -,0521 **3** -.0262 -.0406 -.1332 -.0439 .3780 .3780 -.0931 -.0820 -.0480 -.1103 -. 0864 (XEBBB0) 2386.0 -, 1051 -, 1467 -, 3523 -, 1047 -, 1589 -. 1431 -, 1075 -, 1585 .3010 .3010 -,0657 -.1397 -.1203 -.2617 -.3315 -.4036 -.2037 -.2375 .2510 .2510 -.2426 -.2741 ۵. 1.1651 1.1637 1.1826 1.2556 1.3592 1.5077 1.5518 1.5750 .2040 -1.1316 -.2005 -1.1500 1.0460 .2040 -.9931 1.0460 595.86 -.2595 ORB FUSELAGE .1770 -.3688 -.2634 1.0180 -.2707 1.0180 .1770 0666. 0666. .1660 -.3220 - 1838 - 1968 - 2473 - 2795 - 3474 - 3469 .4816 . 1422 . 1660 . 3624 .3851 Ø AMES 11-073(0A148) -140A/B/C .9600 -.3447 -.2398 -.2117 5438 -.3359 .1580 .9600 . 1580 . 59728 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 -.3031 -.3134 -.2151 -.2405 -.2762 -.3319 -.4539 -.3286 -.3423 -.3143 .1120 MACH -.2163 -.2047 -.2192 -.1948 -.2343 -.1111 .9210 .9210 .3086 . 0992 1175 -.2466 -.2428 -.2347 -.2022 -.1977 -.2194 -.2505 -.1793 -.2489 -.3087 -.5674 -.4385 -.3561 -.2068 -.2482 0070. .0700 .3135 .8790 .0850 .8790 .269± 8.327 -.2548 -.1955 -.2527 -.2525 -.0443 -.0455 .0029 .2626 .4574 .3309 -.2052 -.2052 -.2709 -.1786 -.1597 -.1483 .8210 .0460 .8210 .0460 BETA (4) BETA (5) -, 19-68 - . 15:3 -. 0150 .0400 .1468 .0071 .1325 .1676 .1806 . 0230 .0230 .4738 .7790 .7790 SECTION (1) ORBITER FUSELAGE SECTION (1) ORBITER FUSELASE -. 1500 -.1352 Deco. .0378 . 0083 .1317 .6902 .0839 .0898 6105 .7290 -.1579 .7290 -.0537 -3.935 -3.953 1.1208 1.0704 1.0481 .0059 .0104 .0174 -.1321 .0000 .9820 .0000 . 6520 1.0308 .6550 9820 -.0381 ALTHA C 13 ALPHA (1) PHI 180.000 40,000 D1 1110 X/LB BT.X X/LB .B

ORB FUSELAGE AMES 11-073(0A148) -140A/B/C _ 0 BETA -3.995

SECTION 1 110RBITER FUSELAGE

ALPHA (1)

-.0359 ..0657 3764. -.03:0 .0412 .0286 .0592 -.074E -.0674 -.0744 ..0015 -.0747 -.0560 -.0841 -.1023 -.0898 -. 0954 2386.5 -.0322 .3010 -.0810 -. 1054 -.1743 -.1667 -. 1681 -.1037 -.1385 -.1658 -.2311 -.1614 -.3016 -.2763 -.4096 -.1275 -.1623 -.2150 -.1012 -.1056 -.1614 -.1831 -.2712 .9990 1.0:80 1.0460 . 2040 -1.1193 -1.3590 1.0460 594.33 .1770 -.3765 . 1*822* . 1657 1.0180 -.1488 -.1795 -.2336 -.0528 -.0007 .0158 . 1660 .9990 5073 .5007 . 2844 -.2943 .59646 .1580 -.3495 -.2925 -.1569 -.1724 .9600 DEPENDENT VARIABLE CP .6482 DEPENDENT VARIABLE CP -.5531 -.4206 -.4567 -.4071 . 4210 -.2079 -.1653 .0068 .1241 .1602 .1120 -.3090 -.2317 -.1471 -.1625 -.1982 . 1997 .9210 MACH -.7034 -.5773 -.5276 -.3496 -.2799 -.3427 -.4934 .8790 .3700 -.1493 -.1755 -.1401 .1032 .1938 .2203 -.2335 -.1612 -.1227 -.1361 -.2144 .2368 .8790 . 1908 -7.895 . 1824 . 1097 . 0549 . 1834 . 3421 . 3883 -.2039 .1013 .4041 .8210 -.0790 -.0911 -.0596 .0460 . 2953 .8210 -.2195 -.1784 .0892 .1445 . 2335 .4013 : -.0882 .0838 .0885 .0942 .553 -,0761 -,0200 -,938 -,938 -,4921 -,5405 -,5399 -.1470 .7790 .0230 -.1508 -.1276 -.0364 .0270 4471 .3078 .7793 .1620 .2180 .2134 BETA SECTION (110MBITER FUSELAGE -.1603 .7290 -.1076 -.0363 .0205 .0080 .3078 .7290 -. 1285 -.0648 -. 0974 -. 6235 .0201 -.0879 -.0543 .6520 0000. -.03EJ 1.0243 .6520 4.000.1 1. P. A. P. D. 70.000 109.000 109.000 11.0.000 11.0.000 11.0.000 12.0.000 13.0.000 13.0.000 13.0.000 80.000 150.000 150.000 150.000 150.000 150.000 150.000 150.000 150.000 150.000 150.000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 E) C) **6**1/3 e) R

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	1.0180 1.0460		= 594.33		.1770 .2040	1173	- 1345	1756	14/8	2510	2741	3425 5155	. 1065	0C0 I . I -	-1.3170	•	1.0180 1.0450			- 11			
	ა666.		ø		.1660	1299	1531	1928	- 0363	0732	. 0805	.4558		\$ 1 05.	.3898	0000		ecc.	9000 ·	3 ne ne ne			3043
BLE CP	.9600	1945	. 59646	STE CP	.1580									į	.6514	9600		3+05	- 3405 - 2559	3405 2559 1812	3405 2559 1812 1951	3405 2559 1812 1951 2465	24.05 2559 1812 1951 2465 2376
DEPENDENT VARIABLE	.9210	+860	MACH =	DEPENDENT VARIABLE	.1120		1708	- 1432	0423	.0678	.2115.	.2437			. 2333	.9210		3041	3041	3041 2154 1876	3041 2154 1876 2048	3041 2154 1876 2048	3041 2154 2048 2465 253
DEPENDE	.8790	.0645	-3.854 M	DEPENDE	.0700	1351	1512	1169	ກີ ກິດ ກິດ	1174	. 2093	.2205			.2230	.8790		-, 2299					
	.8210	.2713	-3.		.0460		0768					1682.			.2591	.8210					2190 1731 .0363 .0795		
JOE WOE	.7790	1709	BETA (2)	1GE	.0230	4480	0103	. 1616	38.47	1,275	+53+	7554.			3+90	0677.							
R FUSELA	.7290	. 0059	909 BE	IR FUSELAGE	0800.	35+1				.5928					. 5858	. 7290		0395	0995	0995 1625 0092	-, 0995 -, 1625 -, 0592	0995 1625 0592	-, 0995 -, 1625 -, 0592 -, 0093
11CRBITER FUSELAGE	.6520	- 0541 0642	n	1:0RB1TER	0000.	1.0653									1.0053	.6520				.0571 .0969 .1435			.0571 .0463 .0931 .0630
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	۵		.2510	1018 1018 2272 2606	3190	- 2496	2381			٥		.2510		1015 2527 3423
	594.33		.2040	- 1100 - 1521 - 1520 - 1833 - 2286 - 3288	4154 4154 5674	-1.0805	-1.3032	1.0400	-, 2532 - , 2219	594.33		.2040	1171	1431 2177 2761 4017
FUSELAGE	* 59		.1770			0206 . 0161	•	1.0180	3758	* 59		.1770		
ORB	a		. 1660	1212 1396 1619 1451	0362	4634.	.4333	0666.	3210 2378	o		. 1660	1298	1563 1788 1980 2328
-140A/B/C	. 59646	CP	.1580			.6317		.9600	. 3447 . 2380 . 2040 . 2677 . 3005 . 2541 . 2479	.59646	RE CP	. 1580		
	MACH #	IT VARIABLE	.1120	1517 1259 0722 0341	.1150		1442.	.9210	3039 2005 2019 2510 3381 3381 2554 2559	MACH ==	IT VARIABLE	.1120	- 1485	1360 1305 1090
AMES 11-073(0A14B)	.176 M	DEPENDENT	.0700	1314 1377 1200 0261 . 0201	1211.		.2335	.8790		4.239 M	DEPENDENT	.0700	1430	- 1392 - 0825 - 0844 - 0844
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	TA (3	AGE	.0230	0313 0178 1115 26189 26189	.3535.		.3670	.7790	-1476 -1180 -033/2 -033/2 -033/2 -1034 -1038 -1959 -1959	t U	AGE	.0230	6740 6740	1070 1070 1941 1857
	029 RET/	FUSEL	capp.	. 3589			.5939	.7290	0258 0258 0491	USS BET	P FUSEL	.0093	.3358	.2733
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	ALPHA (2)	SECTICA (8∵.8	0000000 000000 1000000 1000000 10000000		CCOCC	\mathbb{S}^{-1}	X/LB	4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ALPHA . 21	SECTION	хлгв		4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

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-073-1)	ORB FUSELAGE
TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1	AMES 11-07310A1481 -140A/B/C
041E 10 FEB 76	

.5740 57.50 -.0442 -.0007 4.8222 -.0164 -.0131 -.0439 -.0349 .4970 .4970 -.0363 -.0712 -.0757 -.0353-.0380 -.0264 12 -.0531 -.0514 -.0765 .3780 -.0972 -. 1026 3780 -.0517 -.0351 -.0652 -.0669 -.0660 2386.5 -.1237 -.1452 -.2909 -.0642 .3010 -.1379 .3010 -.0810 -.1656 -.1383 -.1322 -. 1601 -.2698 -.3124 -.3819 .2510 930 -.1063 -.1177 -.2398 -.2492 -.3021 -.2731 -,2967 -.4893 -.6298 - 1339 - 16439 - 2399 - 3070 - 4528 - 5282 - 5560 -.2496 .2040 -1.2938 .2040 -1.1131 -1.0901 1.0460 -.3672 -.2920 -.2418 .1770 -.1421 -.0948 .1770 1.0180 - 1436 - 1526 - 1611 - 2131 - 2486 - 2554 - 2890 .3170 .9990 -.3272 .4056 . 166ເ . 1660 . 1252 .2647 .4164 ø -.3384 -.2327 -.2230 -.2823 .5049 .5880 .9600 . 1530 . 59646 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.1552 -.1552 -.1556 -.1507 -.1848 -.2994 -.2046 -.2405 -.2663 -.3282 -.4174 -.3278 -.3472 -.3354 .1120 .1120 .9210 .0592 .2363 . 1483 MACH - . 2290 - . 1548 - . 2480 - . 3089 -.1675 -.1651 -.1651 -.1835 -.1535 -.1535 .0700 .0700 .1118 . 2259 8790 .0267 8.28 -.2225 -.1634 -.0649 -.0530 -.1023 -.1133 -.11539 -.1160 -.1109 -.0063 .0261 2483 3718 .0463 .0450 .217t .8210 3557 3 S S -.0504 -.0772 -.0302 .0058 .0330 .0530 -.1489 -.1510 -.0839 -.0553 . 1559 . 1559 . 1512 . 1612 .0230 .3160 .3599 .7790 .0230 2151 SECTION CITORBITER FUSELAGE 1 - ORBITEP FUSELAGE -.1015 -.2053 .0380 .3117 .6093 7210. 0640. .0855 -.0725 .7290 -.0205 -.0169 -.0182 0000. -. 0692 1.0916 . 6520 . 2000 1.0534 SECTION (ALPHA 1 21 PHI 150,000 151,000 155,000 165,000 174,000 161,000 표 877.B Ha X-LB

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ABULATED PRESSURE DATA - DAIWB (11-073-1
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	.3780	1059			RN/L		3730	
					iù.		•	
	.3010	1637			- 2386.5		.3010	.3010 0482 0148 3133 2112 2010
	.2510	2746			a		.2510	
	.2040	-1.3028	1.0460	-, 2498 -, 1730	593.97		.2040	0892 1032 1014 0493 2568 3415 5741 5741 5741 5741 2541
	.1770		1.0180	2331	59		.1770	
	. 1660	.3199	0666.	3184	0		.1660	. 1006 - 1006 - 1008 - 1019 - 1018 - 1018 - 1418 - 4595 - 4595 - 4595 - 4595 - 4595
BLE CP	. 1580		.9600	3373 2240 2135 2484 2971 4144 3532 3380	.59628	BLE CP	.1580	. 1580 . 6006 . 9600
DEPENDENT VARIABLE	.1120	. 1923	.9210	2949 1939 2517 3130 3584 5070 4227 485	MACH #	DEPENDENT VARIABLE	120	. 1120 0335 1944 1946 1715 1769 1769 1769 1769 1769 1769 1769
DEPENDE	.0700	. 1805	.8790	2294 1562 2762 3498 4882 5910	- 902	DEPENDE	.0700	
	.0460	. 1853	.8210		CLT = (.0460	
AGE	. 0230	.3178	.7790		BETA ()	AGE	. 0230	
DOPBITER FUSELAGE	. 0080	.4870	. 7290	0973 2240 1659 0472	.903 B	ER FUSELAGE	. 0080	. 1485. . 16913 . 1290. . 1290.
(1)0RB1T	.0000	1.0016	.653	0535 1732 1205 1205 0932	S M	110PBITER	.0000	1.0177 1.0177 1.0177 1.019
SECTION	אירם	PH1 180.300	X/LB	PH	ALFHA (3)	SECTION (X/LB	PHI 20.000 40.000 160.000 170.000 170.000 180.000 185.000 185.000 187.000

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				AME	AMES 11-073(04148) -140A/8/C ORB FUSELAGE	- (84140	.140A/B/C	- 68 60	FUSELAGE		(XEBBB
F 14 1 31	m B	303	FHA (3) = 3.903 BETA (1) = -7.902	r- = 1	. 902						
SCA132V (173PB17ER FUSELAGE	1160011	TER FUSEL	LAGE		DEPENDENT VARIABLE CP	T VARIAE	LE CP				
(L	.6520	DEST.	.7790	.8213	.65E7. 0810.1 0810.1 0960. 008. 019. 0810. 1980. 1.0160. 1.0460	.9210	9600	ე666.	1.0180	1.0460	
1Hd	# 60 60 60 60 60 60 60 60 60 60 60 60 60	1961	1979 -	1997	P41 - 2285 - 1265 - 6790 - 6891 - 1071 - 1265 - 1406	. 1265	-,1406				

	4.8207		.5740	.0279	.0476				
	•		0.79v.	.0246	7110.	0282 0395 1181	0671	0569	0553
	RN/L		.3780	0102	.0075	0471		0857	0779
	2386.5		.3010	0350	0036	0904 1238 2821		1640	
	• a.		.2510	0569	0487	1963 2272 3090		3013	-1.496927681498
	593.97		.2040	0686	0787	1044 1569 2304 3017		-1.2570	1.4969
	- 593		.1770					.0322	•
2786	o		.1660	0783	0899 0904	0545 0569 0543	.4129	.4366	.3235
1406 1644 2065 2043 2063	.59628	LE CP	.1580						.6063
- 1865 - 1836 - 1836 - 1836 - 1725 - 1154		T VAPIAB	.1120		0861 0310	. 0341 . 06587 . 0658	1744		. 1554
1071 1257 1960 2500 2597 .0355	-3.865 MACH	DEPENDENT VAPIABLE CP	00700.	6435		11.00 10.10.00 10.00 10.10.00 10.	.1262		.1329
. 1449 . 3023 . 4515 . 3239 . 1171	-3.		.0460			6000 6000 6000 6000 6000 6000 6000 600	. 1852		1577
0790 0073 .0423 .1780 .1780 .1805 .1805	BETA (2)	y	.0230	* 5 11.	. 293a . 293a		.3059		.2283
. 1311 . 1311 		PUSELA	(EC).	.5:87		£695.			£6£4.
600 3 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.907	1108317	6000.	1.0576					1.0576
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-.3769 -.2920 -.3305 -.2429 -.1654 -.1909 -.2151 -.2232 -.2215 -.2934 -.1940 -.1760 -.1994 -.2326 -.2367 -.1319 -.1623 -.1992 -.322.--.2808 -.2744 .2505 .2732 .2160 . 2035 . 2020 . 2020 -.2359 -.0373 -.0699 .0130 -,1539 -.0629 838888888 9 1 9888898 0

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AMES 11-073(0A148) -140A/8/C ORB FUSELAGE

3.907	BETA (رج 1	3.85F										
7250 .7790 .8210	. 8210	DEFEND . 8790	H _	DEFENDENT VARIABLE .8790 .9210 .	BLE CP .9600	ე <u>866</u> .	1.0183	1.0460					
.1784 .3045 .3717.	3048.	7170	_	1982	1933								
99+ BETA (3) = .18C	180.		5-	MACH	.59629	a	. 59.	593.97	a .	- 2386.5	S FRV/L		4.B207
TER FUCELAGE DEPENDENT	DEPENDI	DEPENDE	ī.	NT VARIABLE	SLE CP								
0040. 0840. 0830. 0800.	. 0460	.0700		.1120	.1580	. 1660	0771.	.2040	0128.	.3010	.3780	0.64	3740
164 755 . 1267	. 2867 0+40	1,0340 1,40		-,3766		0675		0652	0502	0252	0005	.0281	.0327
322 . 6552 805 . 1135	. 0532 1135	7		0 t t t t t t t t t t t t t t t t t t t		0838		00000	0563	0097	.0:16	.0160	. 0533
757 - 761 - 2765 - 2614 - 2653 - 2614 - 2653 - 2614 - 2653 - 2634 - 2653 - 2653 - 2653 - 2653 - 2653 - 2653 - 2653 - 2653 - 2653 - 2653	1 + 0 m	1677. 1677. 1887.				1189 1305 1305		2139 3045 3777	2360 3302	12:3 1426 2653	0691 0705 0920	0464 0496 0716	
7960. 1571. 9575.	. 1571	.0967		. 1450		. 3369	0605	4709 6472	36+1	1556	0658	£440	
					Š	960+.	0483	-1.2283	7673	1433	0653	0344	
4141. 1491. 2403. 1641.		3		.1713	0580.	.3715	•	-1.4367	2630	1395	0622	0381	
067F. 085F. 085F.	•	.8790		.9210	.9600	0666.	1.0180	1.0460					
0325 - 293317792037 54015941246 2581157562412115 162700162756 005901683503	779 194 198 198			2682 1865 2129 2462	3303 2596 1957 2071		3694	2487					
0612 .1059 .02533045 .1574 .7753045 .0155 .1562 .30073119 .1500 .3655 .1767	253 7.45 207 556	に 1 で 1 で 1 で 2 で 2 で 2 で 2 で 2 で 2 で 2 で		- 3173 - 2627 - 2730 - 2724	. 2542 - 2521 - 2424 - 1809	3085 2168							

	4.8207		.5740	.0226	0640.								4.8207		5740	. 0386	
			.4970	.0239	7100.	.0558	. 0448 . 1747	.0466	.0563				•		.¥970	1110.	.3445
ê	RN		.3780	÷600.	. 0073	0.80.	- 4570.	- 5570.	- 57.70.				FRV.		.3780	.0175	.0865 -
(XEBBBO)	2386.5		.3010	0347	0372 -	1432	2587 -	1482 -	- 1429 -				2386.5		.3010	.0%38 - - 7570.	.1556 -
	•		55.0	0626	0830	2709		2788	- 2672				•		.2510	- 0740 -	2844 -
	3.97		.2040	0758	1229	2648 3753	- ,4495 - ,5379 - ,6346	-1.2211	.1.4398	1.0460	2470		593.97		.2040	0908 1196 1627	
FUSELAGE	= 593		.1770					1767	•	1.0180	3712 2471		- 593		.1770		
B WO	o		.:660	0799	1061	1776	1317	75.07	.3528	.9930		2505 2505	0		.1650	0916 1084 1337	2035 2263 2522
-140A/B/C	.59628	BLE CP	. 1590						.5479	.3600	3317 2246 2154 2823	3274 2916 2843 1732	.59628	E CP	.1583		,
-07310A148)	MACH B	IT VARIABLE	.1120	6680	0712	0718	0050.		.1592	.9210	2810 1856 2433 2681	3922 3273 3517	# 5	I VARIABL	. 1120	1175	1531 1314 1461
1	.226 M	DEPENDENT	.0700	0503 	0567	1.0502 0.0502 0.0503 0.	0 6 1 1 1 1 1 1		.1333	.8790	- 2035 - 1343 - 2491 - 3158	5132 4563 4142 2832	.276 MACH	DEPENDENT	.0700		1162 1353 1523
ANTS	† 		. 3460	. 0202 5690	1800.	0000 0000 0000 0000	.1354		. 1482	.8210	1758 1210 0771 6713	.0214 .2463 .2251	60		.3~50	5200. 5200. 5523.	
	BETA (4	∃6# ¬	.0230	. 104 8000.	14	1,485	3276		5+27	.7793	-1.005 -1.0569 -1.111-1.0694	000 001 01 01 01 01 01 01 01 01 01 01 01	BETA (S)	304	. 0233	. 0883 . 0587 . 0558	
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3 43	e Pa		TABULATED	<u>o</u>	₩ :	A - 0A148	B C AMES	11-073-						PACE	1226
				AMES	•	-073(0A148)	-140A/B/C	08B	FUSELAGE			IXEB	(XE8880)		
A. PHA .	•	9 62C .	BETA (5	•	8.276										
SECT1042	11 0 60 (1)	TER FUSELAGE	AGE.		DEPENDER	DEPENDENT VARIABLE	BLE CP								
X /FB	0000	.0383	. 6230	. 6460	.0700	.1120	. 1580	. 1660	.1770	.2040	.2510	.3010	.3790	.4970	3740
			1389	. 0658	0308	.0203		. 1067	3145	5866	3202	1630	0891	9690	
70700							i	.2755		-1.2091	2917	1763	1009	0829	
(2)	.9932	.3431	.2031	5720.	9460.	. 1228		. 2529	٠	1.4368	3060	1831	119¥	0995	
E TA	.6523	.7290	.7790	.8210	.8790	.9210	. 9600	0666.	1.0180	1.0460					
	N	1.8016 1.8016 1.8016	00000000000000000000000000000000000000	1852 1229 1216 186	- 1950 - 1348 - 2835 - 3579	2808 1830 2636 3003	3306 2228 2187 2408	; •	2316	2410					
1.60.000 1.65.000 1.60.000 1.65.000 1.85.000	- 1226 - 0781 - 0929 - 1997	1337 0497 0355	0478 .0338 .0564 .0631	1193 .0595 .2670	6156 5833 5812 4766	4675 4160 4711 4495	3794 3431 3370 1916	5044 2771							
[+] Vide [*	•	933 85	ETA (13	-7.	. 896 масн		. 59626	ø	± 593	593.85	•	2386.1	FRV/L		4.8197
% C710N 1	1 10HO 1	TER FUSELAGE	301		DEPENDENT	T VARIABL	LE CP								
X/19	. 6 003	. 0080	. 0230	. 0460	.0700	.1120	. 1580	. 1660	.1770	3040	2510	.3010	.3780	0764.	.57%
	9:86:	6389	.3001	.1591	. 0720.	.0165	' '	. 0362		•	*. 025v	0059	.0205	.0641	.0764
			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	. 2523	. 1484 . 2516	5770.				0087	.0257	.0522	.0746	.0796	E
2000 000 000 000 000 000 000 000 000 00		÷189.	. 5173 . 4669 . 3369	.3323 .3018 .2019	. 2012 . 1120	. 1597 . 1326		.0295 .0978	•	0842 1615 2714	1632 1962 3609	0888 1268 4192	0544 0836 3158	0587 0816 3223	
c.c.			. 1833	. 0588	. 0285	.0335		1414.	. 0632	•	5646	2608	1690	1590	
1000							. 5539	.3866	1	1.4459 -	3870	2266	1441	1286	

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TABULATED PRESSURE DATA - DAIMB : AMES 11-073-1)

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AMES 1'-073/04149) -140A/B/C

5740 4.8197 4970 -. 1050 3 .3780 **9**11.-2385.1 .3010 -. 1851 .85.0 -.3183 Q. 1.0463 . 2C+0 -1.7329 593.85 -.3758 1770 1.0180 -.2622 . 1660 6990 1.1644 O -.1730 -.2169 -.2029 -.1968 -.3198 -.2403 -.1251 -.1504 .1580 .9600 .59526 DEPENDENT VARIABLE OF DEPENDENT VARIABLE -.2655 -.1659 -.1139 -.1632 -.2027 -.2018 -.1857 -.1096 .1123 .0508 .9210 T ACH -.1697 -.1005 -.1005 .0159 -.2730 -.2870 -.3147 .0703 .8790 -3.851 -7.855 . 4810 -.1057 .0339 . 1515 .8210 .0450 1 ผิ . 0530 .0547 CELL. BETA ₩. 3B BOAUGEUF FUSELAGE BC#TBCC #BLIDEC : F+007+ . acea in C: 7.855G 7.833: -075-7537. - 1635 - 3835 (U (ii) (i) 7.933 82+7 2220 3816 0000 ·5:1033 · 4110 14 • • K CB (i)

0764 .0735 .0716 -.080 -.0865 -.2965 -. 1087 - 5925 .0375 -. ree2 -. 1014 -. 2364 3783 .CE28 -.1006 -.1271 30.0 .3120 .0403 -. 20E3 -. 181.--.8140 -.8433 -.3659 -.0122 .0318 8.65 -.4835 -.3383 ...0197 ...0211 ...0365 ...5365 ...5372 ...4639 .2040 -1.4622 -.0135 .1770 -.0142 -.0171 -.0187 -.0453 -.0453 3842 . 1660 3761 .1580 5514 .1120 .0042 .0590 .0702 .0744 .0747 0922 2070. 91+0 0738 .0460 . 3230 ::e: () () () . E853 M86+, 0000. **6**+ 10 · 1

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> -,2372 -,2249 -.3693 -.2808 -.3178 -.2550 -.1598 -.1639 -.0373 -, 1278 -, 9705 89737 - 1 89737 - 1 (T)

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ORE FUSELAGE

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ORB FUSELAGE AMES 11-073:021:83 -140A/B/C

4.8197 .4970 .0817 .0563 -.0703 -.0548 -.0572 RNY .3780 -.1116 -.1159 -.1576 . C464 -.0716 .0407 -.0889 -.0789 2385.1 .3010 .0113 -.1588 -.1772 -.3163 .0158 -. 1469 -. 1581 -.1754 .25.0 -.2634 -.2793 -.3645 -.0057 -.0387 -.2828 -.4128 -.3067 .9990 1.0180 1.0450 .2040 -.0125 -.0237 -.1562 -.2157 -.2990 -.4067 -.5280 -1.3546 -1.5679 1.0460 593.85 .1770 -.3702 1.0180 -.2750 . 1660 -.0141 -.0195 -.0238 -.0941 -.1623 -.1233 . 3025 0666 .3581 .3111 -.2881 -.8333 0 -.1557 -.1846 -.2270 -.2066 -.2310 -.2109 -.1962 .9600 . 59626 .1580 DEPENDENT VARIABLE CP -.3208 -.2134 -.1837 -.2044 -.2521 -.2617 -.2559 -.2553 5296 .9600 DEPENDENT VARIABLE CP . 184 MACH # -.1622 -.1936 -.2237 .9210 .1120 -.0008 -.0065 -.0061 .0056 -.3119 -.2736 -.2908 .0790 .0995 .9210 -.2653 -.1661 -.2080 -.2490 -.1592 -.1629 -.2544 -.3238 -.3116 -.2835 -.0812 .8790 .0700 .0523 .0554 .0765 .0618 .0286 .0167 .0229 -.1670 -.1023 -.2199 -.2775 -.3407 -.3872 -.3597 -.3556 .0554 .8790 -3.851 .8210 .0209 .1785 .3035 .0460 1481 1602 1458 1121 1016 .0665 -.1332 -.0326 -.0092 .0682 .8210 .0471 4555. 8554. ر س BETA (3) -.1643 -.0831 -.0078 0677. .1440 .1731 .1535 .1203 .1318 .0230 .2559 .2779 .3318 .3082 .2712 .2548 .2153 .1506 .1123 .7796 -.0373 -.0038 -.1904 -.1013 .0538 .0939 .1235 BETA SECTION (1) ORPITER FUSELAGE SECTION (1) CRRITER FUSELAGE -.3016 .7290 -. in97 .0080 -.0193 . CD22 .6715 .3459 -.3293 .2686 .0278 -. 1005 .7290 7 912 8.056 -.2477 -.1078 -.0941 -.3805 .6520 -.3792 -.2824 .000. 1.0234 .0729 .0356 .3397 1.0234 .6520 -.1766 A. CH. | H.) H ALPHA (4) PH1 70.000 90.000 55,000 10,000 120,000 150,000 151,000 151,000 151,000 165,000 165,000 165,000 174,000 174,000 ā A/LB

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					_			α.		.2510		·	0972	2907	3699	3626		2989		. (88)					
	₽ ري	i E			30 1.0460			593.85		0 .2040	0243	0391	1024	3598	4657			-1.3234	F 7773	1.0460	3	2497	25		
1-5/	ORB FUSEI AGE				30 1.0180					0771. 0	.	ın e	- n	.			2177			1.0180		3763			
1-6/0-11 65"			•		ენ66. ეე	ណុំ	ç Y			0 .1660	子10	0375	0690 1629	:681 :828	1172	.2154		.3121	2939	.9990				3399	BOC2.
?	18) -140A/B/C			מואפרב כה	. 9600	461845	15052F	VARIABLE CO		.0 .1580	tu	ព ជា) (L) (+ + ^	n	"			1964.	.9600		2152		,	- 2969
	AMES 11-073(0A148)		DEPENDENT WAS LAST	מינט טט	•	212946	MACH			1150		30269		70624	•	0466			. 0884	.9210	1	1637	2578 2752 3379	1 1 H	3336
	AMES 11-	18	טניפיז ניפיזי	na78. 015		977202	4.233	DEPENDENT	50					70687		0630			. 0445	.8790	- 1671		3309 3309 4510	4977	4723
		(3) *		w.	?	W.	n 3		ż	•				.0337		•			. 0549	.8210	1313	0.740	0999	.0087	3190
		BETA	FUSELAGE	30 TT90		1279 10 1475	BETA	FUSELAGE	0.0230		5 .2415 .2268	.2315			0000	!			. 1192	.7790	1240	0040	1448	0476	.0827
		8.059		57. 0		3 8 .0120	910.8		0 . OCBC		.6586			. 1865				ı	.2474 474	. 7290	.0278	3608	če 16	1476	. 0253
		0 ,	1 1 1 CABITER	.65€		059 068	# 	1 JORBITER	. 3330		1.0052								1 . dc62	. 6520	.0587	.3333	ਟੌਜਫੇ9	-, 1592	0743
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	•		.+970	. 0063 . 0063 . 0752 . 0752 . 0949	Ħ		0.464.	.1304	. 1569	1044 1434 5091
380)	RN/L		.3780	0393 1524 1524 0761 0830 0933	RN/L		.3780	.0826	.1361	- 1018 - 1448 - 4894
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	a		.2510	0270 1705 3095 3656 3656 3037	ti O.		.2510	.0330	9680.	1847 2250 4397
	593.85		.2040	0389 0825 1772 2734 2939 6170 5213 6170 7810 2439 1553	.19		.2040	.0281		0856 1791 3297
FUSELAGE	= 593		.1770	. 3506 . 3506 3717 	= 594.		.1770		•	• • •
ore	o		.1660	0302 1631 1631 246 2402 2600 0800 0800 0800 0800	0		. 1660	.0394	. 1122	.0157 .0157 .0382
-140A/B/C	. 59626	LE CP	.1580	.9600 .9600 .2223 -2772 -3072 -3387	.59650	E CP	. 1580			
	MACH =	IT VARIABLE	.1120	0535 0905 1728 1728 1243 0645 0645 0165 0165 2777 2919 3775 4591 4591 4591	# #	T VARIABLE	.1120	7280	1724	. 1530 . 1219 . 0465
11-073(0A148)	.283 M	DEPENDENT	.0700	253 253 253 253 253 363 363 363 363 363 363 363 363 363 3	.860 MACH	DEPENDENT	.0700	.1359	.2641 .2759	. 1639 0030
AMES	. 8		. 0460	. 1139 . 0706 . 0708 . 0932 . 0937 . 0637 . 0088 . 8210 . 1342 . 1530 . 1530 . 1531 . 1516 . 2975 . 1516 . 1516	-7.	_	.0460	.2203	3838	. 2751 . 2451 . 0768
	BETA (5)	IGE	. 0230		TA (1)	မွ	. 6230	.3567	. 5835 . 5693	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		P FUSELAGE	.0080	6230 1848 7290 180 3832 2860 1470 1470	74 BETA	R FUSELA	.0080	.7656		
	= 8.343	110RBITEP	0000.	80. 20. 20. 20. 20. 20. 20. 20. 20. 20. 2	= 11.97¥	110RBITER FUSELAGE	. 6000	.9207		
	ALPHA (4)	SECTION 1	XILB	00000000000000000000000000000000000000	ALPHA (5) =	0.00110	X/LB		#6.000 85.000	

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)			3018	ž P	HADDEN FRESSORE DATA - CAIMB (AMES 11-073-1)	- CA148	(AMES 1	1-073-1	-			
					¥	AMES 11-07310A1481 -140A/B/C ORB FUSELAGE	JA1481 -	140A/B/C	ORB F	USELAGE			3
ALPHA (5) = 11.974 BETA (1) = -7.860			BETA	2		.7.860							•
SECTION C. LICHBITER FUSELAGE	110961	TER FUSEI	LAGE			DEPENDENT VARIABLE CP	VARIABI	ر د د					
x/L8	. 0366	.0000	9	30	.0460	0105 0186 0409 0771. 0381. 01120 .1120 .0050. 0830 .0230 .0450 .0700	.1120	. 1580	. 1660	1770	9040	25.10	6102

. 8. 199	•	RN/L	2385.7	•	594.19 P	නි #	1959	1804 2328 2134 1962 59650	-29192128180 31902193232 32321936213 02291307196 BW2 MACH = .5965	77 2919 14 3197 0 3232 17 0229 77 0229 77 0229 77 0229	.4797 .0634 1010 .3237 = -3.	(2) (2) (3) (4) (5) (5) (5)	ပြပ်ပည်ကို မြော်ပုံလုံကို	BET.
					2530 2530	2938	2689 1959	2958 1973 1199 1493 1977 1804 2328	2298 1216 1122 1396 1703 2128 2128 1936	_	1214 0500 1058 1739 2919 3197 3197	07351214 00480500 00721058 13711739 17392919 00343199	735 048 672 371 240 797 797	
					1.0460	1.0180	.9990	.9600	.9210	9	.8790	.8210 .87	210	.8210
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.5740	.4970	.3780	.3010	.2510	.2040	. 1770	. 1660	. 1580	.1120	8	.0700	.0460		.0460

.5740 .1552 199 .4970 . 1433 . 1359 -.1375 -.1655 -.3640 -. 1623 .3780 -.1392 -.1631 -.3718 .0996 -.1411 -.1230 .3010 -.1688 -.1959 -.4797 .0658 -.2339 .0821 -. 196t . 85.0 -.2460 -.2706 -.4292 .0416 -.3649 .0470 -.5345 .0472 .0369 .0369 .1550 .1550 .3790 .3790 .2040 -1.5419 .1770 -.0546 -.1052 . 1660 .0550 .0642 .0737 -.0270 -.0441 -.0581 .3344 .1580 .1120 .0976 .1428 .0583 .0585 .0388 . 0253 . 1591 . 1709 . 2132 . 1719 . 1914 . 0746 .0700 -.0540 .0460 2832 3159 3159 2680 2077 1521 .0230 .3994 .4439 .5796 .4479 .3565 .3004 .0380 .8038 9714. .0300 .9417 <u>:</u> 61. X

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TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1)

ORB FUSELAGE AMES 11-073(0A148) -140A/B/C

(XE8880)

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.5740 5740 . 1558 . 1819 4.8199 .4970 - 1642 -.1655 -.2320 .1483 -.0853 4970 . 1102 -. 0725 -. 0801 Z Z .3780 -.0862 -.1683 -.1657 -.2535 .3780 .1064 .0721 -.1072 -. 0842 -.0714 2385.7 .3010 -.1558 .3010 -.2213 .0745 .0287 -. 1417 -. 1990 -.1652 .25:0 -.2995 -.2927 -.3002 -.4097 .2510 .0542 -.3828 -.0291 -.2870 -.4410 .2040 -1.9252 .0384 .0302 .1823 .2249 .3109 .4293 .5725 1.0460 .2040 -1.7998 -1.4762 1.0460 594.19 -.3616 -.2628 1.0180 .1770 .1770 -.1412 -.3619 1.0180 . 1660 0666 -.2801 .2097 .0536 .0536 .0531 -.1125 -.1128 -.1206 . 1660 .2756 .3169 .2635 9990 O -.2856 -.1873 -.1494 -.1754 -.1985 -.2245 -.2358 -.1868 .9600 .59650 . 1580 .1580 .4863 .9600 DEPENDENT VARIABLE CP -. 2361 -. 1884 DEPENDENT VARIABLE CP -.2282 -.1252 -.1613 -.1871 .1120 .9210 -.25347 -.2347 -.2560 -.2080 .179 MACH = .1120 .0927 .0856 -.0321 -.0093 .0093 .0281 .0317 .0445 9210 -.2226 .1663 .1561 .1519 .0640 .0655 .0055 -.0312 -.1238 -.0614 -.1702 -.:953 -.3267 -.3042 -.2349 .0700 .8790 .0700 -.1187 -.0468 -.0161 -3.842 -.0709 -.0078 -.0144 .0460 .0460 .8210 .1476 .1766 .3195 -.0331 2559 2589 2483 1476 0877 0621 -. 0682 -. 3052 .0460 1974. .0245 .8210 -.0182 Ħ ຄ 12.035 BETA (3) .0276 .0739 -2163 -1147 . 3230 -.0243 .0509 .0651 .0071 .015. .7790 . 0230 . #031 . #141 . #141 . #141 . #141 . #141 . #141 0410 .0287 .7790 BETA 110PBITER FUSELAGE SECTION (1) CRAITER FUSELAGE . 8383 .1047 -, 3914 -, 2659 .7290 .0358 2+50.--.1115 -.1319 .0080 .8118 .2671 . 1023 .0982 7290 11.993 -.2094 - 10.79 -.117.2 00000 <u>t:</u> - 3253 .0000 5520 .1473 ALPHA (E) PHI 190.030 . 000 40 000 4000 04 £/_3 m Z T a. E F B 3) X

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)
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AMES 11-073(04148) -1404/B/C ORB FUSELAGE

-.1921 -.1716 -.1368 .4970 .1455 7170. -.0694 -. 0798 -.0897 Z Z -.0755 -.0899 .3780 -.1838 -.1673 -.1590 1006 .0206 -.0854 2385.7 -. 1505 -.2361 -.2203 -.3308 -.1772 .3010 -.0390 -. 1547 .0644 -.1178 .0518 -.3267 -.2969 -.2980 -.3847 .2510 -1.4209 -.8327 .2040 -1.7674 1.0460 .9990 1.0180 1.0460 594.19 -.3645 -.2220 .1770 1.0180 -.2614 9990 .0162 .0162 .0044 -.1897 -.1759 -.1873 .2367 -.3381 -.3015 . 1660 . 1330 .2681 0 -.2936 -.1886 -.2218 -.2171 -.2968 -.31+5 -.2999 -.3060 4473 -.2570 -.2584 -.2556 -.1765 9600 -.1931 -.1984 -.2565 .1530 9600 . 59650 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.3908 -.2215 -.1356 -.2713 -.2788 -.3142 -.2863 -.3002 -.3029 .0607 .0092 -.1294 -.0836 -.0715 .0306 .9210 -.2265 -.2432 -.2365 .1120 .9210 .002⁴ 4.242 MACH -.1240 -.0653 -.3375 -.3575 -.5126 -.4702 -.4783 . 0946 - 0946 - 0946 - 0946 -.3878 -.3835 -.3572 .0700 .8790 -.2402 -.2850 -.3718 -.0558 -.0294 .8790 -.0825 .3603 .3992 -.0712 -.0123 -.1460 -.1451 -.0791 -.0451 -.0325 .8210 2352 4933 -.0405 .3977 .0460 .8210 BETA (4) RETA (3) .0338 .0533 -.2788 -.2624 -.1292 .0557 .1039 0118 .0060 .7750 - 25544 - 1535 - 0-90 .0230 3885 2533 2655 1720 1200 1013 .0033 .0055 .1029 .1193 3677. SECTION (110981TER FUSELAGE SECTION (1909BITER FUSELAGE -.4579 .1905 -,0559 -.4338 17.7. -.0751 -.0129 .0080 . 7855 1013 .0774 .7290 -.2085 . 7293 12.027 12.035 - 1515 - 0941 - 0986 -.2217 . 1566 - . 5256 - . 3977 -. 1375 .000 9345 9345 .6520 .6520 -.5373 -.3950 -.23:8 A. PHA (5) ALFH4 (5) 60.000 10.000 PHI 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.0 X/LB X/LB X/LB

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AMES 11-07310A148) -140A/B/C ORB FUSELAGE

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TABULATED PRESSURE DATA - DAINB (NES 11-073-1) R DATE 10 FEB

AMES 11-073(0A148) -1401/B/C ORB FUSELAGE

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575 5 **678**3. £500 -. 1217 -. 1019 -. 687. Z -.2132 3780 .3780 -.2007 -. 1992 442.30 .3010 -.2882 -.2537 .3010 -. 3420 -.4085 8.00 -.4013 -.3716 . 5 5 5 . 0986 - 1495 .2040 -.2618 -.3697 -.4000 2040 1.0460 599.67 .1770 .7043 -.3848 -.4313 .170 1.0180 -.0848 -.1175 . 1660 9990 .9713 1.0200 . 1660 .9329 0 1.0237 . 1580 .9500 -.1321 -.2547 -2560 -1549 -.2298 -.0350 -.0345 .1780 1.3-117 DEPENDENT VARIABLE CP DEPENDENT VARIABLE .9210 -.0926 -.0542 .1446 -.0953 -.1711 -.1400 .0403 .1698 . 1120 .1120 .2906 .2667 **₹** -.0419 -.0680 -.0295 -.0680 .0700 -.0194 -.0314 -.0586 -.2804 .0700 .3055 .8790 302+ .. 85 -3.872 .3856 .0158 .0153 .1017 .0482 . 1479 .2278 .2319 .0460 .8210 2645 .3617 .0460 BETA (2) .0513 .0522 -.2113 -.1772 .0230 . 1996 . 2261 . 2240 . 2333 . 2333 .0230 5758 .4867 .7790 BETA SECTION (1) OPBITER FUSELAGE (1) ORBITER FUSELAGE .0080 .7290 -.1609 .0383 .0387 9458 -17P. -.1112 -.0065 W. 945 3.983 .0288 .0515 -.0583 -.0241 -.0562 -.0475 -.0395 .0000 .0000 .6520 1.4912 -. 1030 ALPHA (3) ALPHA (3) 20.000 20.000 20.000 20.000 110.000 185.000 165.000 165.000 PH1 150.000 151.000 165.000 165.000 165.000 174.000 180.000 SECTION 풀

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AMES 11-073(0A148) -140 JB/C ORB FUSELAGE

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DEPENDE	.0700	.3198	.8790	0338 0464 0614 1326 1900 0394 0257	4.246 R	DEPENDENT	.0700	. 1682	100	1626 1626 1932 1932	. 243C		.3199	.8790	0385 0448
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ER FUSELAGE	.0080	. 7552	.7290	. 0528 1894 1348 0514	00C3	IR FUSEL/	. 0380	. 8255		.5873			.7304	.7290	. 04-99
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2.938B 0724. 3780 .3010 .2510 .2040 0771. . 1660 . 1580 DEPENDENT VARIABLE CP .1120 .0700 .0460 . 0230 SECTION : 110581TER FUSELAGE .0093 .0300

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.9210 . 1913 .2320 .8790 .8210 .2697 3742 .7796 .6111 .7290 .6520 1404... ery

. 1357 . 1495 . 2866 . 2468 . 2468 0857 0890 0894 -.2629 · 1134 -.0998 . 1198 1119 11494 11494 -. 0aic

- W-78 -. 0738 -. 1249 . 1161 . 0250 -. 2628

-.0047 -.0147 -.2218 -.3162

.0408 .0282 -.1611 -.2051 -.2403

.0991 .1124 .1121 .0256

-. 1323

-. 2940 -. 1836 -. 1299

-.2230 -.1406 -.0638

-.0338 -.0338 .0221

0409 1183 3691

-.0521

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PAGE 1239

(XE8881)

<u>.</u>

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE SECTION (1)0RB; TER FUSELAGE DEPENDENT VARIABLE CP X/LE .6520 .7230 .7790 .8210 .9210 .9600 .9990 1.0180 1.0460 :ES CO0405 .1083 .3828 .2285 .00283233 A_F=4 5) = 11 956 PFTA (1) - 2233	ELAGE (XE 8881;
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		2.9079		OKTO.		. 1457	. 1663													
		•		3764	,	() 3.1.7.7.	***	- 1 289 - 1 289	346 3 5134	87		:171		יים באל ביים באל ביים ביים ביים ביים ביים ביים ביים ביי						
		7/84		.3780		5	.:738			2758		2324	0.66							
	7	3.6		.3010			.:655	0150		- 2674	į	- 385. -	3131 -							
	٠	,		. 2510	1347	•	.1799	0765		4939 -		4565 -	4623 -							
	599.44		ě	. 2343	. 1589	. 1555	1554 1335	. 1287 -	0.01.	- 7570		- 9656.	- 56.34	1.0460		3384				
	# 583		1								.6822	l	•	1.0180 1.	ı	3259 3909				
	ø		. 1560	3	.1786		1996	. 1788	†88† †	.8910		. 9297	.8370	.9390		<i>i i</i>		-2050	ננגו	
	= 1.3903	3 . E. CP	.1580									. 9280	•	.9600	000	7.80. 1.80.	.0475	•	- 1711	3269
	MACH	DEPENCENT VARIABLE CP	.1120		95.01	. 2932	75457	.2103		. 1685 CB51			9111.	.9213					6741	
	-3.868 M	DEPENCE	.0700		.3587	8754	.3391	3019		2			. 1357	.8790		. 1881			- 8601	
	H		. 0460		.4831 .5135	.5533	. 5225 . 4604	. 47.38 .3084	3775			:	-	.8210		8105 8105			. 1245 .2231	
	GF 78 (1)	بر ا	.0230		. 6794 . 7259	. 7935	5352	15554.	7645.	ı		6		77//	CT05.				56.91	
, o	n (36473574 25	0000		0961.4		i G	Ch.				.4951	7537		2161.	0.50 K		- 202.	1955	÷.0763
		·	ដូច ទី១ -	t act								1.4097	55.23		1140	0.001		ទី		6635
15 THE 51	(• •	n,	14 100 14	1000 1000 1000 1000 1000 1000 1000 100		្រក 			9 m c 7 C C	000			·		င ှာ ပ	ကြည်း ကြည်း	•		
4	Ü		,! (X:	.1	∩	ដ ូ	; ·*:	[: .t		يُون بُعُوا أ	18.5	•	37 '¥	i	j.	5 6		15%,000	150,000	er Er

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) it. to L

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5740 1455 97.6 145 .3235 . 1451 J. 4970 867. 47.17. 作别点 表别点 1270 -. 0656 CT61. . TOD - 1222 1. EB9 Ž Ž -.0951 -.1403 -.4592 3780 - 1689 - 1887 - 1887 1382 11400 3780 1520 Mai. -.2018 . 135 -. 23 KB CXEBBB11 443.00 443.00 .3610 -.0757 -.2597 -.3553 .1239 . : 233 -.287⊊ 30:0 . 07<u>93</u> 1814.--. 34 if - 11.71 - 1834 - 1834 .030 . 1402 1.454.-. 1320 -.1639 -.4819 . 0 0 0 .1352 .0617 -, 4871 ٥ -.47:8 .2040 1554 1659 10594 10594 1119 1119 1119 1119 -. 333: .2040 1.3450 599.44 599.44 ORB FUSELAGE -.3187 .5988 .5654 1770 1730 1.0180 1762 1762 1962 1161 1153 1155 1155 14069 .9933 -.2837 -.3238 . 1660 7348 .8305 8940 . 1660 0 44ES 11-073:0A148) -140A/B/C = 1.3903 -.0089 -.0695 -.1395 -.2641 .6715 -.3104 -.2121 -.1744 -.3296 .9600 1.3903 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .0849 .0378 -.1363 -.2609 -.2405 -.1716 -.1277 -.0356 . 1120 .2397 .2463 .1408 .1415 .1323 . 1180 .9213 .1120 2126 1785 1044 10567 10567 T V A E 4.249 MACH -.1479 -.1074 -.0416 .0700 .1398 .1269 -.2354 -.2330 .0759 .151. .8790 691. -.0437 .0738 .3232 . 1991 . 2090 - . 2296 - . 1190 . 2463 . 1826 .1907 .82:0 .0460 BENEFIT OF THE STATE OF THE STA m .. ñ $\begin{array}{c} \omega \text{ divicion } w \in \mathcal{T} \\ \omega \text{ divided } w \in \mathcal{T} \\ \omega \text{ divided } w \in \mathcal{T} \\ \end{array}$ C230 8252 2559 2549 1111 13189 1555 100 .0230 7793 41 1-1-1 (1) :: 出 BECTION OF THOMBITER FUSELAGE BEALERUM FILLORDITER FUSELASE 800 1.388 Unit: -.1007 .080 -. 1355 6210 -11.899 11.887 -.6779 -.5332 -.0468 1,000 kg 000 101 .6520 60:::-00001 1.4947 ų, A. C. A. 1 5. ñ en K

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(XEBR81)

ANES 11-073(04148) -140A/B/C GRB FUSELAGE TABULATED PRESSURE DATA - DAIHB (AMES 11-073-1) 4.249 BETA (3) = 11.897 ALPHA (5) =

			6													
			97c.						2.9066		276	2374	.2316			
			0710	0623	0809				H		0.40 A	. 2255	5003.		. 1165	.0768
		į	. 378U	2123	2212				RN/L		.3780	. 2261	-2162	1961	· 878	- 1996 -
		0. 02	3822	2989	3105				14.43		3010	1880	1881	0905 0906 34.04.	4756	3584
		ž.		4739	4600				•		5210	2109	1583	1134	. '.	7974
		2040		3467	. 4586	.0460	3409 2741		a.		2040	2440 2257	•	111	1	3775
		.1770			•	.0180	3532		• 599.91		. 0771.	•	• •		•	6118 6118 6118
		.1660	₩008	.9077	.8517	1 0665.		3710	a		. 1663	.2673 .2552	.2394 .0838	.0942 .0923 3210	9177	.8793
	LE CP	.1580		.8726		.96.3	.0810 0810 0104 2399	4408 2308 2232 3359	.3887	<u>ي</u>		• •	• •	• • •	•	 000 000
	DEPENDENT VARIABLE	.1120	. 0933	į	. 1057	.9210	.0862 .0159 2510 3230	3184 - 1856 - 1511 -	n	VARIABLE	. 1120	3173	.3124 .1199	1639 1633 0533	1650	·
)	DEPENDEN	.0700	.1105		.1535	.9790	.1360 .1222 .2552 3206 4169	1802 1175 0472 2130	160 MACH	DEPENDENT	0020			. 1928 . 1938 . 9410	. 7730	
		.0460	7171.	Ç	5081	.8210	.2048 .2388 .1540	.1182 .1614 .2866	∵ •	5	.0460			15750 15750	. 6780	
	ij S	. 6230	. 2853	א אני מני	677	06//.	. 2212 . 2478 . 4314 . 1010	- 0100 - 0593 - 0327 - 0291 - 0748			.0230	8123 8154		• • •	. 5855	
	T FUSELAGE	. 6580		C F A		י פ פ	. 2049 . 3581 . 3581	.1059 .0487 .0650	BETA	5	.0080	27.25	• •	5770	•	
	ka innu	. 6369		6367	10.11		-	. 0521 0582 0582 0543 0543	15.879		. 0000	3-59 [.		•		
	•	X/LB	# 7 # # # # # # # # # # # # # # # # # #		ar H	11	800860 600860	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	ALPHA (6) = SECTION (1)		x,LB			ទូស្លីក្		185, 039 160, 030 174 - 3

. 7909

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AMES 11-073(04148) -1404/8/C ORB FUSELAGE TABULATED PRESSURE DATA - DATHB (AMES 11-073-1) BETA (1) SECTION OF HORSITER FUSELAGE 15.870 w

5740 0764. -. 1858 .3780 .3010 -.2977 -.5011 .2510 .2040 -.5021 -.3097 1.0460 .1770 1.0180 -.2884 -.3298 .9990 . 1660 .8340 -.4018 .1580 .0376 -.0977 -.2552 .9600 -.3241 -.2382 -.2803 -.3474 DEPENDENT VARIABLE CP .1120 .9210 .0547 . 157; .0557 -.2610 -.3439 -.4363 -.2514 -.1887 -.2562 -.0815 .0700 .0792 -.1982 -.1281 -.3062 -2443 .8790 .0388 -.0053 .0069 .2588 .8210 .3364 .3422 ...4815 ...2632 -...690 .0460 .2900 .0230 .1558 .7790 .3635 .3785 -.5692 -.4203 -.:0003 -.0003 -.2034 -.1167 . **G**BEC .7293 . **2**85. -.5053 .2882 -.1750 -. 1913 -.0623 0000 1.3+59 . 25530 - 3551 - 2555.--.1735 -.0835 -.0846 .5520 -.1233 PH 190.053 87/K Ę. XVLB

PAGE 1243

(XEBBB1)

1244	~		.000 -10.000 1.250	3.0277		.5740	0547	0556						
PAGE 18	05 AUG 75		101	•		.4970	. 1015	- 0660	0042 0062 0416	0644	. 0690	0714		
	_	DATA	SPOBRK L-ELVN MACH	RNAL		.3780	- 5670.	0913 -	1266 - 1334 - 1982 -	1726	- 1784 -	- 1747 -		
	(XE8882)	PARAMETR1C	10.000 -11.700 10.000	551.58		.3010	0607	1324 -	2139 - 3307 -	2591	1808	1566		
		ã	RUDOER = BOFLAP = .	a .		.2510	. 7600	1370	3510 - 3365 -	3763	3638 -	4163 -		
			25.8 3-8	600.03		.2040	.0022	1536		1882 2986	2846	3676	1.0460	5742 4279
_	FUSELAGE			• 60		.1770				į	.6503		1.0160	5563 5365
11-073-	0 R 8			o		.1660	010+	0558	. 1297 . 1657 . 1657	.8763	1576.	.9593	.9990	1731
- 0A148 (AMES 11-073-1	-140A/B/C			1.2466	LE CP	.1580						1.0907	.9600	307# 415# 586 1870 1812 0423 0320
			222	# #	T VARIABLE	.1120		0230	. 1967 . 2412 . 4558	.5819		.6266	.9210	
PRESSURE DATA	11-073(0A148)		<u>zzz</u>	.172 MACH	DEPENDENT	.0700		0325		.4973		. 5620	.8790	2034 1686 1686 .1478 .0395 0540 0540
-	AMES		. 1076.6800 . 0000 375.0000			.0460	720.	2500.	. 3908 . 3908 . 3808 . 5268	.6065		5995	.8210	
TABULATED		Ą	77.72 77.72 77.72 77.72	BETA (1)	351	. 0230	.2059	3628	.5675 .56397.	. 7563		.7539	0677.	0554 0682 228 3365 3710 4833 4833
		REFERENCE DATA	\$2.FT. IN. IN.		R FUSELA	.0083	.6390		9797.			1.0177	.7290	0230 0108 .0395 .1346
3F 85		REFER	2590.0000 474.8030 935.6580 0330	100.4- =	110RBITER FUSELASE	.0000	- + 300					1.4360	.6520	
DATE 10 FEB			SREF = S LREF = S BREF = SCALE =	ALPHA (1)	SECTION (X/LB	PH1 .003	40.000 40.000	90.000 90.000 120.000	000 0+1 000 0+1	165.00 165.00 169.00 169.00 169.00 169.00	174,090	X/∟B	PH1 .C00 70.000 90.000 105.000 110.000 155.000 155.000 165.000 165.000 165.000

Papieto Coball.

1245		. 0295		.5740	0562	0317								3.0275		.5740	0099	.0052	
PAGE 1		7 3		0.4970	0654	0785	0436 0431 0656	0596	0586	0588				•		0.64.	69:0:-	0252	1113 1097 1779
	382)	B RN/L		.3780	0349	0349	1433 1699 1685	1949	2118	2191				EN/L		.3780	.6253	.0430	0784 1370 2848
	(XE8B82)	552.28		.3010	0087	0569	1857 2907 4950	3256	2537	2237				- 552.51		.3010	.0407	.0050	0867 1445 4185
		e.		.2510	.0315	0465	3201	4736	4107	4783				٩		.2510	.0593	. 0235	2303 2211 2015
		599.87		. ≥040	.0358	- 0468	. 0632 0183 0265	1293	3387	4881	1.0460	5384 3962		599.65		.2040	. 0542	.0368	1252 1258 1998
-	FUSELAGE	*		. 1770					. 5560 . 6260		1.0180	5021		- 596		0771.			
(AMES 11-073-1	ORB	o		. 1660	.0181	.0457	. 1825 . 1825 . 2128 . 4334	.8674	0	9229	0666.		1.100% 1.100%	o		. 1660	.0513	1116	3012
	-140A/B/C	1.2457	BLE CP	. 1580						1.0544	.9500	2381 3537 .2247 .1721	0128 1281 1019 3528	1.2454	I ABLE CP	. 1580			
A - 0A148	-573(CA148)	MACH .	IT VARIABLE	.1120	200	0452	1.336 1.421 1.421 1.421	.5010		.5337	.92:0	1598 1624 2502 1597	1864 0357 0161 0598	MACH .	VAR	.1120	000	10 ± 0.0	3097
SSURE DATA	• •	١٣٠ ا ١٢١	DEPENDENT	.0700	.1016	1832	25.55 5.55 5.55 5.55 5.55 5.55 5.55 5.5	. 2873		±0£+.	.8790	- 1252 - 1245 - 0958 - 0136	0826 .0032 .0558 .2953	.880 MA	DEPENDENT	.070	7	2202	35.58. 57.58. 57.58.
i.	SDA			.0460	in in	ğ	. 3587. 8587. 8687. 8687.	4925		.4 8 15	.8210	0495 0331 .1739 .1314	.3778 .3978 .3898			.0450	7575.	. 350 to 10	97534 9754 9754 9754
TABLLAFE			ig.	. 0230	. 3090	- 4004.	្នាស់ ក្នុង ភាព ក្នុង ភាព ក្នុង ភាព ក្នុង ភាព ក្នុង	. 543B		.6288	0677.	7510. 70093 7-11-84 10770.	.3623 .3529 .3529 .3542 .3542	BETA (1)	ior Cr	.0230	\$01.4 0.83 0.83	6132	. 1000 1000 1000 1000 1000 1000 1000 100
			R FUSEL	.0380	34LL.		5424.			. 88 ⁴ 2	.723ū	.0214 -:1216 -:0530	.0313 .0839	5	R FUSELACE	.0080	8395		:088
ų, Έ		t) H	3.186011	. 6000	1.4469					1.4459	.6523	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0333 .0236 .0151 .0119	3.9	110831TER	. 3000	1.4327		
() () () ()		470 T	SECTION	87/X		2 (1)	944 945 955 955 955 955 955 955 955 955	Ciri	- ល្អ - ល្អ - ល្អ	100	87/K	# 71 00 00 00 00 00 00 00 00 00 00 00 00 00		ALFIIA (3)	SECTION 1	81/x	500	300	

			.5740							3.0275		5740	0127			
			0L34.	1079	0855	0716				Ħ		0794.	0181	1178	05+1	0513
(XE8882)			.3780	2035	2146	2354				RNAL		.3780	.0204	1420 1957 2318	1967	288
(XEB			.3010	4089	3680	3015				552.51		.3010	. 0105	1647 2269 4818	3835	3056
			.2510	5218	4778	4837				<u>.</u> С.		.2510	.0766	2839 2890 2829	5320	4590
			.2040	.2559	3851	4899	1.0460	5073		599.82		.2040	. 060 4040 4048 6488	. 1553 . 0430 - 0013	3572	3864
FUSELAGE			.1770	6929	SBCq.		1.0180	4670 5114		50		.1770			55.75	.6037
ORB			.1660	0606	.9408	.8502	0666.	.	- 1056 - 1056	ø		.1660	.0628 .0706	. 2429 . 2427 . 2428	.8501	.9240
-140A/B/C		BLE CP	.1580		600	9000	.9600	1748 3101 .2687 .1966	.0121 1313 0903 3266	1.2454	BLE CP	.1580				1.0086
11-07310A148)		NT VARIABLE	.1120	5112		.4206	.9210	1056 0720 .2796 .1541	2280 1318 .0023	MACH	UT VARIABLE	.1120	. 1068	. 1906 . 1906 . 3159	٠4059	
	3.880	DEPENDENT	.0700	.3088		.3148	.8790	0444 0589 0093 1330	0930 0859 0456 2704	.192 ₩	DEPENDENT	.0700	. 1697 . 1593 . 1905	2326	. 2869	
AMES	H		.0460	.4019		.3726	.8210	.0329 .0336 0161 .0548	. 1495 . 2686 . 2710			. 0460	.2819 .2779 .3082	.3619 .3619 .3983	.3924	
•	BETA (1	AGE	. 0230	.5815		. 4960	.7790	.0888 .0698 .2595. .0049	5145. 7272. 72689. 2789 2686.	BETA (2)	AGE	. 0230	. 5389 . 5389 . 5389	. 595. 1595. 1595.	DHAG.	
	910 8	TEP FUSELAGE	. 0080			.7537	.7290	. 1954 1954 1418	0976 .0594	.950 BI	ER FUSELAGE	.0080	.9038	.7324		
	ii W	1.1088	. 6893			1.4327	.5520	.0335 .0485 0551 0287	0850 0227 0142 0087	m M	1 JORBITER	.0000	1.4394			
	ALPHA (3)	SECTION :	A/LB	PH: 140.090 151.000	166.00 169.00 14.000	180,000	87/X	PH1 46,000 70,000 70,000 105,000	185.000 185.000 185.000	ALPHA (3)	SECTION (X/LB	74 60.00. IL	100.000 100.000 100.000	505	168-000 165-000 169-000 174-000

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SATE 10 FEB "5

				9						ស		9	22	2						
				.5740			wes.t			3.0275		57.6	0188	65						
				.4970	0505					٠.		.4976	0208	0498	1160 1014 073%	0529	05%	0728		
	6 63			.3780	2383					FBN/L		.3780	.0298	.0061	1885 2301 1779	2236	2497	2357		
	(XE8882)			.3010	2741			•		552.51		.3010	.0507	.0107	2161 2775 5308	3328	2818	29%		
				.2510	5269					• •		.2510	.0600	.0433	3206 3447 3619	5320	5388	4685		
				.2040	5458	1.0450	503# 3525			599.82		. 2040	.0455	. 0363	. 0357 1043	3054 4291	3943	5134	1.0460	4998
	OPB FUSELAGE			.1770		1.0180	4789 4729			59 <u>6</u>		.1770				į	.5197 7918.		1.0180	4761
				.1660	.8886	0666.		- 1258 - 1258		σ		. 1660	9426	.0722	. 1477 . 1799 . 3595	0177.	.8695	.8678	.9990	
	MES 11-073(0A148) -140A, B/C		are cr	.1560		.960	16°9 2866 .1907 .1201	2328 2014 1578	1.555.	1.2454	RE CF	. 1560					!	.99(3	C396.	1475
	(04148) ·		IT VARIABLE	.1120	.4311	.9210	1034 0720 .1886 .0356	2680 1566 0758		MACH	DEPENDENT VARIABLE	.1120	i i	. 068 480 480	. 0760. 0890. 38815.	.3416		.3641	.9210	0953
i	5 11-073	.192	DEPENDENT	.0700	. 3222	.8790	7.0415 7.0565 7.0456 7.1012	1174 0493 0180	n 1910.	.246 M	DEPENDEN	.0700	1764	1599		.2335		.3128	.8790	0407
	AMES	4		.0-60	.3806	.8210	. 0336 . 0499 . 0334 . 0334	.1055	.4375	ý H		.0460	.291.	2596	. 2359 2359 2536 818.	.3585		.3865	.8210	.0385 .0549
		BETA C	JOE.	.0230	:016:	.7790	.0940 .0974 .0756 .1208	. 243+ .243+ .243+ .2493	.2833	BETA (3)	IGE	.0230	4210	¥114.	.4756 .4756 .4933	1664.		.5073	.7790	. 1059
		3.950 98	R FUSELAGE	. 6380	7454	7290	. 1949 1949	. 1396 1450.	.0381	38 515.	DORBITER FUSELAGE	.0080	0+68.		.5807			.7232	.7290	.0773
		3.6	LIORBITER	. 0000	1.4394	.6520	.0355 .0659 0757 0323	0193	7 COO .	3.0	1) ORBI TE	. 0000	1.4232					1.4232	.6520	. 0129 . 0611
		ALPHA (3)	SECTION (8~/x	PH1 180.000	X/€B	PHI 40.000 70.000 190.000	135.000 135.000 150.000	180.000	ALPHA (3)	SECTION (X/LB	146	£0.00	20.033 20.060 20.060 20.060	140.000		174 C30 180.000	X/18	PH1 .000 .40.000

(XE8882)

TABULATED PRESSURE DATA - DAIMB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

						3.0295		.57£0	.0530	. 0537									
						•		.4970	· Dieses	.0303	2380 :333	86737-	.0516	ų.	(1)				
(XE8B82)						AN/L		08/5.	.0879	.0816	1350 - 1925 -		2160 -	2000					
(XEB						552.28	9	2105.	. 1050	+170.	- 1415 - 1845 - 4697		- 164£	. 4102					
					c		0	9	.1050	.1072	2345		5051	- 5594					
		9	9		6 00 07	ò :	כ מ כ		. 0999 . 0876	1362		0790	4312	. 5865	0460	7695	5 016.		
ORB FUSELAGE		6010					0221	•					2886	•	.0180				
		0000		218 2 1669	c	,	. 1660		. 1229 . 1234	. 1549	.2551 .4595	.8220	. 9056	.8603	.9990	• •		2114	•
-1404/6/0	BLE CP		.1145	4311 2652 2313 3473	1.2457	LE CP								. 9368	.9600	0920	. 1562 . 1084 . 0653		. 2503 1962
	ctb DEPENDENT VARIABLE	.9210	.1039 0644 2580	3472 2205 1565 0575	MACH	IT VARIABLE	.1120		. 1528	. 1679	. 1692 . 1742 . 2081	.2140		.2164	.9210		. 1469 0432 3049		2023
•	T.C.B DEPENDE	.8790	0720 1336 2780	1937 1360 0533	.170 m	DEPENDENT	.0700	Coo	. 25.74 2.74 3.74 3.74 3.74	. 2856 2856 3	27.18 27.55 2015 2015	5025		. 2384	.A790				- 0820 -
	l -	.8210	.0180 7110. 7350.	0103 .2657 .2451	Ħ		.0460	705 705	.3978	. 3893	. 3455 . 3295 . 3295	.2892		.2875	.8210	. 1329	.1017 .0138 .0532		. 5443 .4637
DFTA 13		.7790	8248 0195 .1080	. 1571 . 2557 . 2744 . 6585	BETA (1)	u O	.0230	96	.5592	. 6. 50 . 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.5653	4436		. 3928	.7790	:1 993 -2047	. 3287 . 2701 . 0412	7.17.	.1133
3.915	FUSE	. 7290	2053	0185 .0553	875 BE	F FUSELAG	.0280	1.0276			.6862			.5045	. 7290	1641.	+975 - 665 - 7	. 0942	.035+
H.	1)C991TER	.6520	-, 0594 -, 0246	.0105 0323 0117	₹ 7.8	THE STATE OF	. 0000	1.4050						.4069	.6520	. 28 25 . : 750	•	- 5:12	- 08.20
ALDHA (W:	SECTION	X/LB	TOUGO	1000000 200000 200000 200000 200000	ALPORT (4)	SECT10% /	o to x	PH1 .000	40.000 40.000	55.000 70.60 0	90.000 120.000 1+0.000	150,000 151,000 158,000	1885,000 1885,000 174,000	G.	X/LB	000 UA 000 UA	10.000 105.000 105.000	120,000	150,000

Calle 10

TABULATED PRESSUPE ELTA - DAINB (AMES 11-073-1)

-.1574--.2010 .497C . 1255 . 1338 -. 1625 -. 107C -. **069**0 Z .3780 -.0608 -.1255 -.5747 . 1623 .1783 -.2857 -.2483 -. 21g (XEBBB5) 552.51 -.0555 -.0821 -.3980 .3010 .1336 .1548 -.4653 -. 3532 -.5555 -.1302 -.1800 -.2102 -.6129 .2048 .25 . 1424 -.5723 -. 25gg .5752 . 2040 1634 1747 1712 1821 2016 1262 0363 -. 4848 1.0460 1.0460 600.06 ORB FUSELAGE 1.0180 .1770 -.4304 .5936 .6001 1.0180 ე666. . 1660 .1941 .2033 .2034 .2074 .1995 .2549 .8735 9990 6098 1754 AVES 11-07310A148) -140A/B/C .9600 -.0605 -.1623 .0533 -.0598 -.1876 -.1614 -.1873 -.2394 -.3668 1.2456 .9650 . 1580 .9600 -. 358± DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -3.862 MACH . .1120 .9210 -.0640 .2392 .3049 .2583 .2488 .2290 .0338 -.0036 -.0140 -.0970 -.2293 -.1645 -.1651 .9210 .1472 . 125 .1783 .9700 . 1193 . 0946 -. 0583 -. 1497 -.1629 -.1343 -.5772 .8790 3473 3596 4200 3944 3221 2825 1563 1641 1401 .8790 .8210 . 4523 .3463 .1832 .1722 .6210 .3187 BETA (1) 1000. 1001.3 1000. 1000. 1000. . 23.85 . 25.35 .7733 3230 .671 .7139 .751 .751 .6779 .6170 .6170 .2558 .3198 .3198 .4221 .3574 3-59 .7790 8514 . CORPTER FUSELAGE SECTION (11OFBITER FUSELAGE .7290 0000 -.3860 -.2975 -.0513 1.1314 .2750 -.00:4 .7697 .4737 .7290 -.2146 -.2:3: 11.833 7 375 2, 10, 1 2, 10, 1 4, 0, 10, 1 - 0.730 - 0.730 - 0.534 .6533 0000 1.3475 1. 3475 .6520 . 222: ALPHA C 4: ALPHA (51 PH1 155.000 180.000 ¥71.8 B 1/X en E:

4338

. 1609

.1350

.5740

800

TABULATED PRESSURE DATA - DAI48 (AMES 11-073-1)

PAGE 1250

RIVE (XEBBBS) 552.51 600.06 ORB FUSELAGE AMES 11-073(0A148) -140A/B/C **=** 1.2456 .178 MACH ວິ BETA 11.948

.5740 .1376 . 1368 5740 .1098 . 1292 €764. .1245 -.**233**4 -.2395 -.2395 -.00-.0703 -.3150 -.2760 -.1544 <u>.</u> -.0467 .12,7 J. 4970 12 -.1365 .1610 . 1455 .3780 -. 2285 -.204B -.2043 -.2041 -.2453 -.3926 .1677 . 1168 .3780 552.51 - 1298 - 1549 - 4544 .3010 .1552 .1271 -.3786 -.3336 1.494.--.1849 -.2113 -.4884 .1076 .3010 . 1461 .2510 .1549 -.1825 -.2369 -.2802 .1367 -.5390 -.5884 -.2147 -.2795 -.3372 -.6144 .2510 . 1388 . 1061 . 2040 .1672 .1160 .1145 .1145 .1370 .0436 -.0666 .1606 .0505 .0505 .0463 .1214 .0831 -.6:95 -.4468 -.2999 ..4727 1.0460 .2040 600.06 1.0180 -.4257 .1770 .5350 .177 . 1660 .1998 .1966 .2082 .1264 .1278 .2087 7648 0666. .8791 .8399 -.2773 .1660 .1885 .1310 .0352 .0602 .1686 0 -.0386 -.1579 .0782 .0522 -.3442 -.2696 -.2257 -.3753 .8273 .9500 .1580 1.2456 DEPENDENT VARIABLE CP DEPLACENT VARIABLE CP .1120 .2253 .2416 .1424 .1545 .1545 .1496 .0558 .0117 .0344 -.1421 140: .1276 .5210 -.3105 .1991 .1705 .0305 .0653 .0689 . 1120 TACE .0700 3648 3484 3555 3555 2299 2299 2206 1256 . 1241 . 1002 - 2495 - . 2970 - . 3376 -.2031 -.1428 -.0767 . 1273 .1590 .8793 .0700 .3512 .3120 .2953 .1938 .1373 .1374 4.251 . 2349 - 1975 - 1027 .0460 .4995 .4930 .4930 .4793 .3479 .3143 .8210 . 1919 .0132 .1721 .4381 . 1834 25.55 4.1969 4.196 2.229 2.229 2.229 2.2293 2.233 3.1394 .0460 SETA 1 31 .2990 .3218 -.4254 -.3512 .0230 .6782 .6508 .7019 .6253 .5191 .5193 .5143 2743 3265 .7790 0166 .0304 .0190 .0190 .1567 .0230 THOPBITER FUSELAGE TICHHITER FUSILACE .0080 -.3873 .6253 .4+95 0 1 2 2 1.1412 .0090 189 199 199 6年37 -.07.6 -.1382 1.1299 TELT. • 11.969 1879. 1875. 1875. 1.35:8 8.50.1 8.50.1 9.50.1 1.3419 1.35:8 .6553 -, 1365 .0000 1 10110 to A. P. A. C 51 ្រឹស្តីកុំស្តីកូចូស្ត្ EU-X

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ALFLA . 5

TABULATED FRESSURE DATA - DAING (ANES 11-073-1)

ORB FUSELAGE AMES 11-073(0A148) -140A/B/C

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PAGE 1251

(XE8882)

3764. · 549. -.0571 -.0568 . 5780 -. 1966 -.2050 -. 2254 -.3575 .3010 -.4239 - 34.55 93.0 -.5417 -.6190 -.5584 -.1611 .2040 -.5902 -. 4740 -.4531 1.0460 .1770 .4653 .4925 -.4272 -.4533 1.0180 . 1660 .7708 9360 .8399 .8122 .1580 .9052 -.5286 -.3041 -.2950 -.3698 -.0404 -.1344 .0784 .0978 .9600 DEPENDENT VARIABLE CP .1120 .9210 .0847 .0132 -.0344 -.3045 -.4076 -.2448 -.2248 .0934 . 1111 . 1029 3700 .1152 .0966 .2866 .3374 -.2569 -.1589 -.1026 0841. .8790 r. 25. . 1642 . 25.22 - 2000 - 1556 - 1556 .0460 1799 -. 1464 -2074 -3524 .8210 14492 (B) .0230 BYES. 8:75. .2959 .3119 -.4378 -.3110 0677. .0850 .0960 .1850 .1205 .0617 BETA SECTION NORBITER FUSELAGE -.3759 .0090 9695 .4221 7895 -.:12E -.0508 -.0339 E35 · ! ! .0000 61-5-1 + 6233 SEER. i. œ ·

(XE6583) (05 AUG 75)	PARAMETRIC DATA	R = 10.000 SPOSRX = .000 P = -11.700 L-ELVN = -10.000 N = 10.000 MACH = 1.100	6401 F = 1/KH 62.807 =	•	2510 .3310 .3780 4920 stars	. 1432 - 1250 - 1995	14601097 -		63371513 -	.52 3229 17214 8 - 0168	3_10'- 8622'- 5882'- 2594	560220 94233E - .0na;	! !					
		RUDDER BDFLAP R-ELVN	5.30 P		. 2040	0493 -	•	0982 2031		•	4613	1184-	1.0460	7175	1 588			
FUSELAGE					.1770					167.73	#E#S.		1.0180	6994	- 15 E			
C ORB			ø		.:660	0100	0308 1040	.0547 .0547	. 3055	.782:	8916	.8705	.9993			3247		
AMES 11-073(0A148) -140A/8/C			1.0992	BLE CP	.1581							1.0132	.9603	3.87	4936 - 1929 - 1843 - 1843		. 0391 0451	3672
1(0A148)		200 24x	MACH	NT VARIABLE	.1120	!	03547 0354	. 1785 . 1515 	ָּהָלְיּלְיּלְיּלְיּלְיִּלְיִּלְיִּלְיִּלְיִ	. 5517		.5991	.9210	2567	. 25.55 . 25.55 . 25.56 . 25.56	6870.	0283 0301	
S 11-07		76.6800 IN. .0000 IN. 75.0000 IN.	. 171.	DEPENDENT	. 0700	4410.	6107 6107	. 2363 . 2363	0 th 0	.5068		.5704	.8790		1835 		0637	
AME		1076. 375.			.0460	9780.	. 0955 0955 0955	3549	5.15.	.6067		.6086	.8210	553	258 258 268 268 268 268 268 268 268 268 268 26		5821	.6568
	ITA	XMRP YMRP ZMRP	BETA (;	AGE	.0230	1466		. 5305 . 6040 . 6080	, i	ħ.		.7526	.7790	.0726	2000 8000 4000 4000 4000 4000 4000 4000	.4333	. 5365 . 5365 . 5365	5261
	REFERENCE DATA	SO.FT.	3.943 B	EP FUSEL	.0083	. 5699		.7588				1686.	.7290	0259	. 1306 . 1879	-2632	.3188	.3269
	REFE	2890.0000 474.8000 935.0680		C 110RBITER FUSELAGE	. 0000	1.3533						1.3538	.6520	. 0656 0053	1506	.1729	3561.	9881
		SOET BREET SOET BREET BREET BREET	ALPHA (1)	SECTION (X/LB						188.000 188.000 189.000 189.000		X/18	PH:	70.000 90.000 105.000	170.000 120.000	ມີໃນໄດ້	180.000

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

PAGE 1253	1883)	1 RN/L • 3.1985		3780 .4970 .5780	083910582308		18920580 18220577		20490294	245 0255	25540284				0 FeV/L = 3.1983		0478. 0784. 0878.	030806050386	00250593 .0125	-,1464 -,0957 -,2021 -,80 -,3059 -,358
	(XEBBB3)	- 710.0		0108. 01	·090 31	ľ	• •	i	ET3979	932983	832776				- 709.30		3010	62 0289	50 0393	77:312 83:898 005496
		۵		0.2510	•	·	<i>i i</i>	i		925 0	06283		សេចា		a		0125. 0	1 .0167	10150	73377 93483 73200
		599.15		.2040	.0108 0179	0314	0244	1484	764	5090	5910	1.0460	-, 7015 -, 1449		598.75		.2040	. G48	900	. 0309 - 0309
_	FUSELAGE	\$G •		0771.						5175. 8518.		1.0183	6841 5337		8		.1776			
11-073-1	8	o		. 1560	.0373	. 06/3	. 1061	3340	.7693	.8514	.8304	.9930	7	. 2195	0		. 1660	.0933	0350	2085 2085 3145 370
I CAMES	-140A/B/C	1.0980	LE CP	.1580							9781	.9600		.0103 .0103 1156	1.0981	ABLE CP	.1580			
84:40 - 1	-073(0A148) -	HACH =	IT VARTABL	.1120	2450	1523	. 2141 2045	4030	C684.		.5239	.9210	1645 1964 .2844 .2060 .1429	0153 1153 0824 0313	MACH =	VAR	.1120	ğ	1513	00.4 00.4 00.4 00.4 00.4 00.4 00.4 00.4
ESSURE DATA		.171 F	CEPENDENT	. 0700	.0521	1000.	. 2485 8485	3573	÷815.		5174.	.8790	1102 0984 2277 .1280 .0038	:599 1016 6248 .1926	876 MA	DEPENDENT	.0700	1651	. 22.34 22.34	14 4 E
Œ	APICS			.0460	1874	. 1985.	.3284	.4693	.512.		76 64 .	.8213	0137 0137 8809 869 869	.4325 .4325 .4622 .4622	-3.		.0460	5175.	3405	. 4587 . 4732 . 5784
TABULATED		ב ו	AGE	. 0230	. 2881 . 2881	0605 F1090	15.97 191		£6+9.		.6312	. 773C	.009. .0170 .1628 .3084	3572 3976 3976 4282 4308	113 473	AGE	.0230	3903		989.00 10.00
		36.2 BE	FUSE	. 6383	.7690		70-7.	•			4790°	.7293	.0487 1452 0705	.1346	159 65	FUSEL	. 0090	.8390		& &
φ			1 109B1TEP	. 0000	1.3536						1.3635	.6520	. 0588 . 0588 . 0588 . 1688	.070. 5750. 7690.	3.85	1 1 CHERTER	0000	1.3527		
CATE 10 PE		ALPHA (E)	SECTION I	X'LB	E 23		900		10.0		865 * C	Billyk	00000000000000000000000000000000000000	2000 000 000 000 000 000 000 000 000 00	ALPHA 131	SECTION C	87.8	T .	; ; ;	•

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ANES 11-073:04148) -1404/8/C ORB FUSELAGE TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) DATE 10 FEB 76 A.PHA (3) =

-3.876

BETA (1) m

3.859

	6478.							. 1963] 3 (3)	0000 -	.0:61						
	יבונה.	683	9E-	35.2-				F)		164	e 360 -	60		iii	iii		.)	
	3763	61 41) 13	÷200	ξ. 				NA.		.3780	9620	. 02.50	0.0	- 2655	- 61.16	ļ	Ų	
	3010	- F899.	. 8638.÷	- 36'8				709.30		.3010	0265	. 0526	2155	6149	4824	\$		
	55.0	6877	6.EE	595.				•		<u>8</u>	.0193	0165	. 3927		6995	Ş	. D/80	
	6+0≥.	+, 0827 +, 3502	- 5657	- 67.	1.0-60	1 th				. 20%0	.0532	029 029 029		-,1158	-		. 25/5.	
	0771.	5191	ታ ወታ ሆ		1.0185			598.73		.1770						. 4915	•	
	. 1660	.8163		. 7546	0666.	000	ກ ຍາ ນຸດກາ ນຸດກາ ນຸດກາ ນຸດກາ	o		. 1660	.1013	1081	7.00 7.00 8.00 8.00 8.00 8.00 8.00 8.00	.3512	7557.		.8265	
רב כם	. 1580			9546	.9550	- 2374 - 4407 - 2089 1324 0882	.0679 .0304 0675	1.0381	רב כם	. 1580								10-6
DEPENDENT VARIABLE	.1120	in in		Birth.	.9210	3171 3171 3171 1425	0116 0783 6401	MACH .	T VARIABLE	.1120	į	1492		3842	3464.			
DEPENDEN	0070.	.373!		. 3599	0678.	7.0590 7.0944 .8296 .1433	1278 1449 0697	189 MA	DEFENDENT	.6700	1659	1961		30.5	. 3 €08			
	.0463	, 4297		3995	.82:0	9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	.3191 .3191 .3245 .3861	•		.0460	1975.	10 4 B	3.493	4103	0114			
႘	.6230	1583.		786ª.	0677	11111111111111111111111111111111111111	3304 33040 33040 33040	8ETA (2)	ું હ	. 6230	.3338	.5158	255.7. 25.7.7. 25.7.7.	5778	.5:57			
R FUSELA	. 0380			.7388	. T83.	10 01 11 10 11 11 0 11 11	0859 7:517		P FUSELAGE	ceno.	.8497		7050	3				
110ABITER FUSELAGE	coop.			1.3557	.6533	ម្ភេក ស្រុក ស្រុក ស្រុក អ្នក ស្រុក អ្នក ស្រុក	+ 130 + 86+0. 9890. +\$80.	3.938	1 : OPE: 11cP	3 00 3	1.3579							
5 KO: 1046	X/LB	######################################	188- 000-881 000-681	1) ()	¥/√8		10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ALPHA (3)	S(01:98)	XALB	PH1 000	ສຸດ ເຄດ ເຄດ ເຄດ ເຄດ ເຄດ ເຄດ ເຄດ ເຄດ ເຄດ ເຄ	70, 500 10, 900 90, 500	120.000	150.030	000-161 161-000	169,073	104,000

PAGE 1255

2 5750 #60. - 2433 CEST. C:93. -. D397 -.0339 -.0373 -. 3523 -.2612 -.2615 -.1920 3.30 .3780 - . P445 -. 9335 -.2243 -.2555 -. 23 (XEB683) 30.30 -.0776 -.2926 -.4441 -.6683 .3010 -.3335 .3019 - 3659 -.0279 -. 3503 . 3951 -.4420 -.4835 -.4777 . 1000 .0127 30 -.6782 - 3268 -.6610 -.5871 -.6763 -.7158 .2040 -.6731 .2040 -.6952 1.0460 1.0460 -.5769 598.75 1770 -.6521 -.5130 1.0160 10.45 10.45 1.0190 17.0 . 9390 . 1660 .7833 .1013 .0906 .1040 .1084 .1084 .1125 .1722 178t 9990 . 1660 5929 0777 Ç 4-13 11-073(04148) -140A/B/C - .2178 - .4048 - 1559 - 0878 - 0479 ..034 -.0363 -.2011 -.3567 .9168 .9600 .9660 . 1580 . 1580 1.3961 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP -.1041 -.1386 -.2511 .1588 .0932 -.1+61 -.1722 -.1415 -.0754 .1120 .9210 .1120 4436 90.4 .0508 .1154 .1720 .2006 .2006 .3917 3126 -.0583 -.0583 -.0583 -.0521 -.0523 3700 .0700 .3635 1610 1326 1547 1644 1491 1508 .2810 .8790 3724 E733 4.243 .0592 .0592 .1841 .1512 0.460 3936 .8210 .1214 .3787 .4633 m of .8210 .0+60 383 ñ ñ . 5233 .5133 THE STATE OF THE S .02.30 3829 3829 4739 4515 4515 4515 4515 1,1985 5145 .7790 3611 SETA 4 . 35 INCRBITER FUSELAGE SECTION (NOPRITER FUSELACE diam. 1.085.1 1.085.1 .0383 . **63**40 .5503 7032 .ace. , -.0333 1.80 729€ 7531. :075: 3.938 3.913 1476 1476 10715 16314 0000 .6520 . **6**228 .0738 .0738 .0758 .0853 6520 1.3572 1.3426 8. W. Conta v 94.000 93.000 47.17.74 m'/× 87/X (F)

-.6513 -.4274

-.6561 -.5186

-.2233 -.3694

., 145; -, 145;

-.0734

. 1332 144

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(XEEBB3)

1-2:5-1	* CAB FUSELAGE	
TABLICATED PRESSURE DATA - DAIMP (AMES 11-073(0A148) - "4"). CRB FUSELAGE	ALPHA (3) = 3.9.3 BETA (3) = 4.243
9		3.9:3
85 837 01 DTAG		ALPHA (3) =

248:15 6520	P FUSEL	AGE . 7730	.8210	JEPENDENT VAR .8790 .921	NT VAP	a .	0666·	1.3180	1.0450					
230' 152	۲۰۰۵	- 1432 . C291 . 1323	.1334 .0995 .0708	.0312 0857 2329	.085 00:									
186 C .	5 1 (6)		.3168 .3168 .2987	3008 2443 1503	372 3044 2703	.3356 3356 3351	2388							
. : 383		916	.3693	900		•								
81	69	11 113	n	.173 M	MACH	1.0972	ø	. 59	598.87	U	- 710.71	PN/L	•	3.1995
ii G	•1 (,)	35		DEPENDENT	IT VARIABLE	BLE CP								
		.0230	.0460	.0700	.1120	.1580	. 1660	.1770	.2043	.8510	.3010	.3780	0264.	5740
	9 10 17	07 4	3791	.2625 2402	200		1534		.1283	0460.	00+0.	90+0.	.0113	.0223
		(1)	3324	. 582. 582. 687. 687.	. 2185 27.45 27.45 27.45		718		1287	.0517	.0118	.0307	009E	.6373
u)	ဏ္	CO CO MO W (1) W (1) W (1)	. 37-03 . 37-03 . 33-03 . 33-03 . 33-03	23.75 27.83 27.83 27.83 34.1	2659 2659 3484 3484		1969 1961 1971 1971		. 0032 - 0032	3987	2503	2013		
		430E	.3043	.2515	.3782		87.ET.		2107	7569	5513	2173	068:	
							.8003	. 4508 . 4655	6221	6436	4107	2025	0431	
.5775	ቪ	3910	.2394	.2750	3905	.8927	.760;		7823	7280		2030	0356	
.72	7590	.7793	.8210	.8790	.9210	.9600	0666	1.0180	1.0460					
ĸ.	693					1773	•	6287	6497					
W. W.	ព្រួល	30.49 30.49 34.13	0.790 0.790 0.770 0.770	0330	. 1373	. 1401 . 0907	•		/ 585 · .					
-	33						3543							
. G278	ŭ	. 1999 . 2460	. 35.75 . 55.14	1746 -) ; ;							

(XE8883)

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

AMES 11-073(04148) -140A/B/C ORB FUSELAGE

				3.1978		.5740		.220 4	.2564															
				•		0.694.		.0956	9101.	1075	282	3452	1380	100		0527								
				5 RN/L		.3780		.1210	. 1458	1106	1878	7388	2979	3545		1975								
				710.95		.3010		.1120	.1230	1066	- 1439	5248	6975	6600	9	4353								
				_ _		.2510		. 1335	.1437	9260	- 3054	3505	7985	7402		6362								
		1.0460		598.54		.2640		1981	2145	1858	021	.0212	0811 2162	AC126	0/63	7716	1.0460		CE-04-					
		1.0130		15 E		.1770								.4916 .4916			1.0160		1,5358					
		3666.		ø		.1660		5025	, 400 100 100 100 100 100 100 100 100 100	. 2340	ָ ספני ספני ספני ספני ספני ספני ספני ספני	.4160	STTT.		.7894	.6853	.9990				•	- 2458		
	BLE C	.9630	3622	1.0958	SLE CO	.1590										9	.96n0	į	202	. 10-5	00.75	1043	2759	3961
	DEPENDENT VARIABLE C	.9210	1555	MACH =	DEPENDENT VARIABLE	.1120		Ç	3316	3035	3086	.3042	.3171			.3224	.9210		0442	100.	2590	2510	1853	0970
.173	LEPENDE	.9790	. 0915	-3.856 M	DEPENDE	9076.		.3536	.4231	3961	, 537. 97.89	.2018	.1642			. 1802	.8790	1	0337	0585	1353	1867	6018 1320	.089.
4		.8210	. 5233	1 = -3		.0463		4802	. 5406 9040	5107	מות לבליי לבות לביי	.2900	.1885			. 1858	.8210	!	1866	.0263	. 0850	11.8	20 20 20 20 20 20 20 20 20 20 20 20 20 2	.5103
BETA (1	AGE	.7790	.2965	BETA 1	4.0E	DEED.		.5534	7690.	7251	2,500.	. 620	.3327			. 2525	.7790	;	8+/u.	0174	079+	.0504	0.755	. 1550 . 2451
8.023 B	R FUSEL	.7290	1800.		TR FUSEL	0800		1.0785			7346)				.4370	.7290		.33/0	3901	•	1947	1735	0401
. 8.0	1) 0481 TE	.6520	9870.	± :1.896	1) CABITER FUSELASE	. 0000		1.2853								1.2653	.6520	1	1005 1005 1005 1005 1005 1005 1005 1005	1322	£1/0.1	1828	050:	.0863
ALPHA (L)	SECTION (1) DRBITER FUSELAGE	X/L3	PHI 185.000 180.000	ALPHA (5)	SECTION (۳., œ	Hd	•	1000 1000 1000 1000	55.000	20.00 00.00	120.000	189-00 189-00 189-00	162.030	169.000	180.000	X/LB	PHI	000 .C.*	000	000	120.000	150.000	165.603

IC FFE 75 TABULATED PRESSURE DATA - DATH8 (AMES 11-073-1)

.2067 . 1985 .2275 -.3255 -.3170 -.2110 .4970 3653 3545 1.1448 -.034C .497€ -.0865 -.0394 \$0. Š 138 .3780 -.2046 -.2681 -.7160 .1018 1551. -.2456 3780 . 1255 -.2835 .0554 710.95 710.95 -.2296 -.2296 -.5771 .3010 . 1209 .0833 -. 2821 -. 3083 -. 6256 -.6125 -.4596 .3010 . 1258 .6377 -.4181 -.2696 -.3659 -.4155 .2510 . 1442 .1066 -. 7989 -.7623 .0519 -. 6882 . Б .1367 -.3391 -.4:84 -.4794 . 5109 .1853 .1853 .1838 .0896 -.0120 -.6552 1.0460 .2040 -.8231 598.64 598.64 ORB FUSELAGE .1770 -.6028 -.5126 .4844. 1.0130 .1770 .9990 . 1660 2232 2176 2300 1603 1790 2074 3774 7214 .7774 .7335 -.3497 .1660 2199 1990 1803 0896 1249 1592 O O AMES 11-073(0A148) -140A/B/C -.1522 -.2815 .1001 .0628 -.0072 1.0968 . 1580 8430 - 1338 - 3082 - 8609 - 3844 .9600 MACH = 1.0958 . 1580 DEPENDENT VARIABLE CP DEPENDENT VARIABLE CP .1120 .0205 -.0205 -.0038 -.2472 -.2781 -.2923 -.2022 .2549 .2787 .1991 .2331 .3013 .1120 3363 .9210 .3387 .2315 .2040 .1137 .131. .2014 .205. T) Y -.3294 -.2303 -.1919 .1328 .0621 -.1384 -.1311 .0760 3503 3513 35513 35513 1752 1752 . 1855 .8730 .2700 .3538 .3160 .797 .1797 .1073 4.251 971. . 1852 . 2040 - . 1389 - . 1735 . 5852 . 5852 . 5854 .0463 0.000 5559 ເບ 35TA 1 31 . 0230 2877. . 3233 : CARITEP FUSELACE TIONBITER FUSELAGE Callo. 3205 - ,4699 - ,3135 1.1330 7637 .0093 -.0928 1.0748 . 088: -.623: 1077 11.963 00000 3347 3440 4860. 10994 11.00 5303 1.272. 3.001.038 REPLACES w e i

GE 1259

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PAGE				103	2/61	0516	0431	Š			
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				25.0		8046	7160	7000	i i		
				. 2040	•	3032	6675	7903	1.0460	6200	
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11-073-				. 1 6 60		.6636	7395	.7206			3732
TABULATED PRESSURE DATA - CAIW8 : AMES 11-073-1)	ANES 11-73/04148) -140A/B/C		BLE CP	. 1580				.8294	.9600	1633 2700 .0618	0459 5026 3876 3691
A - CAIM	1.0A14B)		DEPENDENT VARIABLE CP	.1120		. 3096		.3290	.9210		
SSUPE DAT	11-u2	4.251	CEPENDE	.0700		.1106		.16+4	.8790	1408 10011 10011 10011	3745 8579 1977
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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

ORB FUSELAGE AMES 11-073(0A148) -143A/B/C

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CS AUG

(XE8834)

57.5 -.6338 4.00.4 -10.00 000.01 4970 .0193 .0994 .0992 .0625 .0528 .0510 .0578 -. 0022 SFDBRK L-ELVN MACH DATA .3780 .0573 .0418 .0204 .0298 -.0287 .0365 .0308 -.016^u PARAMETR1C 10.009 -11.700 10.000 1059. .3010 -.0212 -.0723 -.1695 -.0510 .0137 1.0240 . 5981 -.0631 -.7699 -.7328 -.E799 .8510 -.3147 -.1774 -.8433 H H H -.7487 -.7458 FUDDER BETTAP a. 1.2026 1.37.03 1.37.03 1.45.03 1.45.03 1.46.03 1.66.03 .2040 -.9631 -.8550 - 3295 - 2495 1.0460 599.63 1770 .3227 -.4571 1.0180 -2045 -2257 -2279 -2274 -1677 -1610 .1660 .597B .7095 .9930 -.3116 .6982 O .89930 -.5127 -.541. -.0331 -.1453 -.2011 -.1993 -.2338 -.2354 . 8584 .9600 DEPENDENT VARIABLE CP .1120 2008. 2008. 1.1278 2003. 2003. 2003. 2003. -.3443 -.4353 .1299 .0291 -.1731 -.1405 -.1562 -.1433 .3681 .9210 1054. 868 .165 MACH zzz .0700 -.3994 -.3499 .1281 .0334 -.0834 -.2902 -.2386 -.1590 .8790 .4271 1075.5830 .0000 375.0000 -.3328 -.3353 -2331 -2229 09-0 7680 .8210 .4595 2869 4854 7497 . . 1.000 SWS . 1,400 1,400 2,400 2,400 5053 .E133 3677. BOWNESS GENERAL T PEFEDER DE CATA 0000 8259. 8000 875 875 875 .7895 .659. - 1891 - - : 1881. -3.385 9 £83. 81.67. 81.67. 1.2288 1. . 0. 4.

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1-073-1	
(APES 1	
TABULATED PRESSURE DATA - 04148	
TABULA	
341E 10 FEB 76	

1381		.5863		.5740	.0605					3.5814		٠. د.	.1147
PAGE 1		(F)		0.4970	.0233 .0527 .0526 .0396	.0306	.0298			•		0/64.	.0597 .0597 .0394 .0287
	3	FN/L		.3780	.0029 .0058 .0173 .0200	.0303	.0306			RN/L		.3780	
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		•		.2510	1720 - 2672 - 7313 - 7144 -	9610	.879				,	1810	.1188 .1501 .5825 .6192
		. 28 P		.2040	1.1551 1.2085 1.2085 1.2578 1.3728	•	9290	1.0460	3264 2621	38 P	į	.2040	1015 11.88 11.88 10.99 11.828 11.828 11.99 11.99 11.99 11.3
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11-073-1	ORB FI	ø		. 1650	1442 15633 1784 1301 1038 0937	.5834	.6479	0666.	2865 2209	ø	1	. 1660	0866 0379 0842 0019 0316
(APES	-140A B/C	.897-0	ABLE CF	.1560			.8213	.960		. 89803	, CF	. 1563	, , , , ,
- 0A148		MACH	VAP	.1120	1337 1029 0240 .0397 717	. 3257	.3613	.9210	3530 4217 .1291 0417 0417 1656 1903	HACH "	VAR	.1120	0635 .0046 .1054 .1770
SSURE DATA	11-073(0A148)	165 MA	DEPENSENT	.9700	-,0789 -,0636 -,0636 -,0636 -,073 -,034 -,034	. 2683	.3280	.8790		885 PA	DEPENDENT	.0700	.0056 .0756 .0764 .1870 .2655 .2655
e E	AMES	u		.0460	.0001 .0001 .0262 .0290 .772 .372	.37:3	.3639	.8210		n ki		.0460	1094 1790 1790 3130 3130 3459
TABULATED		BETA (1.)	304	.0230	.0901 .1156 .74683 .4664 .4664	.5352	.4917	0614	1450 1353 .0349 .0349 .1626 .1626 .2871 .3057 .3033	BETA (1.)	AGE	. 0230	2254 2896 4327 5170 5170 51473
		5,	P FUSEL	. 33 8 3	.5389		57.57.	.7290	5.755. 6337 6337 .0330 .0300	.886 86	FUSEL	.0080	. 7052
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0ATE 10 FEB		A. PHE . 2:	SECTION	X/LB	### ##################################	555555 555555	8.9 9.8	87.7 8	#	ALOUA (3)	SECTION (X/58	### ##################################

34 E3 01 E40

BETA (1) = -3.895

₹.899

#_PHA (3: =

(XE8884)

AMES 11-073(04148) -140A/B/C ORB FUSELAGE

	.5740							5814		5740	7863.	.1256			
	.4970	0194	0000.	.0108				n N		.4 9 70	.0819	. 6537	9,50. 9,50. -,5028	.0135	.0165
	.3780	- 0190	.0459	.0514				PN/IL		.3780	. 0243	. 0354	0257 0175 0103	. C5.48	. 0522
	.3010	4254	4117	2700				1060.0		.3010	0420	0417	1469 1599 2765	3836	2315
	.2510	- 6636	7734	9350				Ħ Q.		.2510	1181	1818	6641 7229 6950	-1.0451	9423
	. 2040	3469 4526	9665	-1.0998	1.0460	3657		598.39		.2040	0965	1.1015	- 1894 - 3917 - 3917	. 900 / 1 . 900 / 1	9860
	.1770	.2911	.3176	•	1.0180	5030 4161		= 596		0771.				8000	. 4503.
	.1660	.6287	.66.19	.5602	0666.	100 C	- 2190	C		.1660	0749	0802-	0575 0461 1360	1565.	. 6398
LE CP	.1580			.7896	.9530	4967 5757 .0071 0622	1448 1857 2010	.89303	PLE CP	.1583					8777.
	.1120 .1580	.2875		.2754 .2754	.9510	35134967 41235757 .1748 .0071 .07170622 00381287	- 1278 - 1448 - 1296 - 1857 - 1279 - 2010 - 1017 - 2094	11	VARIABLE	.1120 .1580		0468 .0010	. 0740 . 0749 . 0753 . 70	5302.	8777.
DEPENDENT VARIABLE CP	•	. 2262 . 2875		•	•	3513 4123 .1748 .0717	1278 1296 1279	164 MACH =				· ·	. 1119	£393° 5861°	8777.
	.1120	•		. 2754	. 9210		8000 8000 110	MACH =	VARIABLE	.1120	7810. 5751	1203 . 0072 :542 . 0454 .	• • •		8777.
DEPENDENT VARIABLE	. 0700 .1120	833 .2262 .		2241 .2754	. 0156. 0678. 015	.188521213513 .177721374123 .2265 .1715 .1748 .2495 .0868 .0717 .265700800038	630 - 2368 - 1296 650 - 2368 - 1296 857 - 2171 - 1279 .3492 - 1017	[A (2) = .164 MACH =	PEPENDENT VARIABLE	460 .0700 .1120	7810. 2721. 00+	536 . 1203 . 0072 636	2008 .1119 .2008 .2019 .	9861. SITE.	8777.
FUSELASE DEPENDENT VARIABLE	.0460 .0700 .1120	355 . 2833 . 2262 .		. 2573. 1455. E755.	. 0150, 0879, 0158, 0877	.04501585212!3513 .0450177721374123 .0134 .2265 .1715 .1748 .0812 .2495 .0868 .0717 .1592 .265700800038	2068 - 26.30 - 214.7 - 12.79 2068 - 26.30 - 2368 - 12.96 2047 - 1657 - 2171 - 12.79 5625 - 24.0 - 2101.7 5985 - 3445 - 2015	92 BETA (2) = .164 MACH =	P FUSELAGE DEPENDENT VARIABLE	230 .0460 .0700 .1120	7810. 2721. 00+	3538 . 1203 . 0072 3538 . 1542 . 0464 .	103 . 2008 . 1119 . 170 . 2008 . 1019 . 170 . 2008	9891, STTS. 1589	8777.
DEPENDENT VARIABLE	. 0230 .0700 .0700 .1120 .	355 . 2833 . 2262 .		93 .3492 .2573 .2941 .3754	. 0159. 0679. 0158. 0677. 065	.3513351335133513351335134123777121374123 .3552 . 61342555 . 1715 . 1748 .07172659668 .07172659668 .0038	.0423 .2721 .2435 -21471279 .3068 .2630 -23681296 .0423 .2847 .185721711279 .2625 .2420 .3442	2 BETA (2) = .164 MACH =	FUSELACE NEPENDENT VARIABLE	083 .0230 .0460 .0700 .1120	7810. 2751. 0045. 878	3538 . 1203 . 0072 3538 . 1542 . 0464 .	. #104 . 2008 . 1119	9891, STTS. 1589	8777.

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			0.76¥.	.0166				•		0794.	.0827	.0548	.0081 .0157 .0186	.0153	.0105	.0032		
ŝ			.3780	.0*93				FRV/L		.3780	.0182	2610.	0232 0063 .0291	.0512	ج. الأ	.0473		
(XE8884)			.3010	1789				1050		.3010	0556	0727	1317 1654 2727	3232	2331	2260		
			.2510	9571				•		.2510	1265	2025	7294 7975 732	-1.0123	7989	9514		
			. 2040	-1.0533	1.0460	- 3427 - 2569		88		.2040	1003	0141.1	2535 4092 5235	- 8250 -1-	9974	-1.1225	1.0460	3247
FUSELAGE			0771.	1	1.0180	4655		₹ 598		.1770				- 1260.	. 1626	•	1.0180	4585 3336
A BRO			.1660	.6039	0666.		- 2157	0		.1660	0776	. 0892 . 0892	1220 1207 1376	.4755	.5881	.5831	0666.	
140A/B/C		LE CP	.1580		.9600	5043 5419 0299 0922	1899 2182 2313	.89803	E CP	.1580		•				8446	. 9600	5063 5473
04148)		IT VARIAELE	.1120	.2887	.9210	3368 4007 .1175 .0188	1933 1913 2126 2141	MACH	IT VARIAE	.1120	i c	0313	. 0050 . 0050 . 0212	.2185	••	.2759	.9210	3316 3904
AES 11-073(0A14B)	1 91 :	DEPENDENT	.0703	. 2332	.8790	1962 6120 0990 0008	3088 3031 8637 0951	248 MA	DEPENDENT	.0700			25.00. 64.00. 84.00. 87.70.	.1394		.2195	.8795	1864
AMES 11			.0460	.2628	.8210	1522 1675 1645 1572 1572	.4177 .4177 .4635	11		.0460	15 15 15 15 15 15 15 15 15 15 15 15 15 1	999	0884 1010 1760	.2277		.2415	.8210	:758
1 1 1 1	ETA : 27	Je Ge	. 0230	.3719	0677	11.1 10.00 1	######################################	TA ' 31	LAGE	. 0230	.2261	. 2652	.3381 .3381	3548.		.3633	.7790	0512
	3 9 2	R FUSELAGE	ceap.	n m M	.7290	60 - 60 60 - 6	. 0862 . 008 . 088 . 088	35 BET	3674 6	.0080	.6738		73927			.5517	.7290	£715.
	;; ;;	1) ORB! TER	. 3030	1.2333	0239.	0713 0563 2269 1645		6) (i)	3.7840(1	.0000	1.2134					1.213.	.6520	C637
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AMES 11-073(0A148) -140A/B/C 049 FUSELAGE

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BETA (3) =

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						3,5792		5740	1651	1926							
						P .		01 01 01	1.33±	1168	0113 0129 0605	004B	3710	වසින			
						1/NG	•	37BC .		. 5193	- 0981 0859	. €+93	. 9473.	0020			
						1059.3		0101	•	0163	1764(1976(.+528() 6674.	3 0774.			
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						Œ		.2510	•	110	5985 5971 7195	6324	6714	6970			
		1.3460						. 2040	0173	1. 12. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	1433 2455 3537	5002 8825	-1.0275	8558	1.0∿60	2613	
		1.2180				= 598.		.1770					. 22.55 2.55 1.		1.0180	5079 - 3812 -	
		3880		2766 2301		ø		. 1660	.0361	0000	0238 0147 198	.5456	.6112	.5558	. 9990	• •	2685 2231
	BLE CP	.9600	0620 1211 :813	7.2368 7.2568 9.76	. 2077 5.007	.89820	9.E CP	.1580						3 00/.	.9600	4780 5376 0426 1048	
	DEPENDENT VARIABLE	. 9210	0588 0334 1099	2639	1.3747	MACH	T VARIAB	.1:20	800	.0833	.0890 .1073 .1802	5202.		. 2231	.9210	3091 3662 .0853 0077	
	DEPENDE	3678.	.0263 0814 2101	1.4639 1.4915 1.4915	. 2.93	.163 M	DEFENDENT	.0700		900	. 1017	76:::		0.5	3979.	- 1480 - 1777 - 0526 - 0490	
		.8210	9000 9000 9000 9000	1 00 00 00 00 00 00 00 00 00 00 00 00 00	. (4)	н		09+0	, in in in in in in in in in in in in in	18. 18. 18. 18. 18. 18. 18. 18. 18. 18.	25.85 1.08.85 1.08.83	. 1855		. 1648	.8210	0985 0965 0927 098	903
1	4 05	06.7	7.0986 7.0173 0379	. 1833 1.003	1316 1316 1 - 1 a	TA (1)	u C	. 6230	. 3241 . 3285 . 3285	いた。	. 3565 . 3565 . 3565 . 3564	.2555		.2463	. 773G	. 0223 . 0419 . 1083 . 0322	.1010
	ار (۱) اد	E) EU E	+ 1 m tr m tr m tm	M 01	1 11	38 BE	413574 8	. 5083	5 3. 01		5385			£42±.	.7293		+703.
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		u;		1011	**************************************				- 1.7	50		100	4000		<i>"</i> ."	500000 50000 50000	5555 601. (

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(XEBBB#) 4.1961 -.2279 -.2192 -.4375 .30:3 .0736 .0156 -.5290 -.5+39 2510 -.5208 -.6083 .0370 -.0362 -.5850 ۵ .0659 .0497 .0790 -.175 -.2058 -.3379 -.4893 .2040 1.0460 **24.4**3.4 597.36 ORB F'JSELAGE .9990 1.0180 .1770 . 2014 . 2014 .0925 .0876 .0846 .0115 -0115 .0133 . 1660 5287 .582. 0 AMES 11-073(04149) -: 404/8/C .9600 -. 1996 .89670 . 1580 DEPENDENT VARIABLE CP DEPCHOENT VARIABLE .1120 .9210 .1544 .0639 .0376 .1349 -.2535 .1614 MACH .6790 -. 1039 .0700 22384 2275 22412 23412 10385 0753 0753 8110 . 159 3542 .8213 3582 3507 3511 2595 1939 1685 . 6463 .0669 BETA (1) 333 .7790 .6830 5461 5461 15161 3930 3467 .1724 BE 1.4 LICTRITER FUSSLANS SECTION - 1109BITER FLISELAGE 7830 . 3033 -.0551 .9582 .4355 9.008 = 11.969 -. 0255 -. 0359 8580 . **C**CGG 1.1325 ALPHA 1 53 PHI 165.000 190.000 ď. B-/X

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-.0807 -.0589 -.1221

-.1**9**45 -.1963 -.3:39

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-.6859 1.0460

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-.4190 -.5915

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. 1025 1203 1203 - 1739 - 0798

. 1959 1.588t

8555. - 1695. - 1695. - 1556.

-. 2966 -. 2415 -.4357 -.6295 -.0736 -.1337

-.2499 -.2742 -.2837 -.2314 -.2694 -.2855 -.3171 -.2898 -.4285 -.4103 -.3632 -.1416

.1009 .2741 .3944

.0104 .0293 .0530 .0933 .1039

-.2050 -.2935

-. 2655

-.2015

3518

- 110

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AMES 1:-073(0A148) -140A/B/C ORB FUSELAGE

PASE 1265 (35 AUG 75)

(XEBBB3)

PARAMETRIC CATA	RUDDER = 10.000 SPOBRK = .000 BDFLAP = -11.706 L-ELVN = -10.000 R-ELVN = 10.000 MACH = .600	= 593.85 P = 2386.4 RN/L = 4.8156		0+62, 060+, 0815, 0105, 0185, 0+05, 0711,	~.146711630919057055920812 1637	230116741088088408510955 - 2303	2597 2322 0832 0095 0425 3687 2792 1187 0238 0292 3636 2994 2571 0480 0007	3664 4972264518950433	.0726 9421212710 98 0368	-1.137;203v10270393 .000a	1.0180 1.0460	2886 2020	
		ø		. 1560	1713	2582 2582	1934 2104 0650	.3931	.5027	7064.	0666.	į	2358 2358
		.59620	E CP	. 1580						÷0/9•	.9600	3637 3465 0777 1339	2085 2117 2154 2382
	0,00 50,00	MACH	DEPENDENT VARIABLE	.1120	2297	2350	0801	.2583		.3125	.9210	- 3273 - 2900 - 0526 - 0402	2033 1680 1942
	6800 IN. 0000 IN. 0000 IN.	.164 H	DEPENDE	.0700	+,2264 -,2398	2511	049+ 0265 1258	.2420		.3167	.8730	2643 3189 .0743 0131	2640 2317 1933 0505
	= 1076.			.0460	- 1920 - 1939	2048	0170	.3435		.3468	.8210	2713 2959 .1484 .1571	.4170 .4170 .4527
TA	AMRP YMRP ZMRP	BETA (1)	AGE	.0230	+.1933 +.1771	0353	. 2052 . 24 70 . 3986	8494.		.4708	.7790	2035 2229 -0.492 -0947 -1272	.1832 .2437 .2541 .2359
PEFEPENCE DATA	855 E		110ABITER FUSELAGE	.0080	. 1648		.4318			.6395	.7290	1539 0364	.0954 .0956 .0973
BEFE	2690.0000 474.8300 935.0583	: = -3.903		. 0000	1.035.7					1.0367	.6520	- 1292 - 1836 - 1228 - 0631	0.10 9.88.00 9.80.00 9.00 9
		A.PHA	SECTION :	87. ¢	18 000 18 000 10 000 10	200 200 200 200 200 200 200 200 200 200				0000061	X/LB	PH1 000 40,000 70,000 90,000 105,000	

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TABULATED PRESSURE

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PAGE		•		0764.	0236	1.000 1.000 1.000 1.000 1.000	0250	0209	[249			1		5. E. S.	1.02 to 1.02 t
	ŝ	7/86		3780	₹. 0	0380 0387 0455 0563	6603	508	0503			ž.	ļ	.5063	00100 00100 00100 00100 00100
	(XE8885)	- 2387.		3010	0985		1355	1312	i 289			2386.4		- 5355. - 0312	0169 1257 1468
	C ORB FUSELAGE	٩		85.5	7760	1105 2594 3166	3235	2575	2369			.		91C3.	0626 2360 2689 3345
		- 593.87		. 20 40		1.1917 1.1917 1.3343 1.3571	2.57.1 1.57.3	-1.0932	-1.3107	1.0460	2008 2008	ē	į	0723	- 1603 - 1603 - 1603 - 3155 - 3155
				0771.				. 1010. - 1010.	•	1.0180	2 965 2965	* 595.0 4	į	?	
:1-073-1		Ö		. 1660	- 1460 - 1708 - 1708 - 1519 - 1658 - 1658		.3639	. 35.39		0665.	2917	a	((. 1803 0834	0947 1055 1237 1352
B : AMES	A^ES :1-073(0A;48) -1404/8/	. 53620	er ce	.1580				į	, oco	.9500	3580 3462 10562 1727 1949 2142 2190	.59680	רב כה		
A - CA148		MACH .	UT VARIABLE	.1120	1623	0813 0438 0258 1139	1861 ·		. 2350	0126	. 3170 . 2810 . 0539 . 0539 . 1018 . 1018 . 2009 . 2009	n ±S		7.00	0505 0338 0338 0001 0001
SURE DATA		.163 M.	DEPENDENT	.0700	1397	7.0351 7.003 7.001 8721.	.16:8		. 2223	.8793	. 2560 . 2660 . 2660 . 1151 . 1151 . 2521 . 2799 . 2799 . 2799	160 MACH	DEPENDENT		1.05.00 1.05.0
TEC PRESSURE		•		.0450	0899 0796	# W F 4 A A A A A A A A A A A A A A A A A A	+ សូពូល.		.2523	.8210	2380 2527 1376 1451 1677 316 3283 3863		e de		0516 1047 1043 1151
TABULAT		1 J W 13	304	0530	0+30 0271		3575		1 1 5 5 .	2677.	1637 - 1710 - 1710 - 1051 - 10	TA 1 13	GE	8801. 8801.	2005 2005 2005 2005 5005 5005
		372 B	1350 a 63	3800	.3-57	2023 .			.57+0	7290	1056 1056 0500 0522 0657	G77 BET.	R FUSELAGE	9715.	500+
e F		•	1. Cap. 1.	() () () ()	6±90°:				5±80°:	SE38.	. 0675 . 0866 . 1655 . 0797 . 0797 . 0068		1.04917ER	1.6524	
Life to the state of the state		in and		m _i	TOU				<i>C</i> 3	, ,		कि । सम्प्रेच	SECTION :	000 E	

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TABULATED PRESSURE DATA - DAINB (AMES 11-073-1) 12 10 B34 01

BETA (1)

4.077

4.PHA (3)

URB FUSELAGE AMES 11-073(0A149) -140A/B/C

PAGE 1258

(XEB385)

3 5740 CE 33 1034 0724 METO I - 1986 - 1986 - 1986 0.64 F. -.05:7 . 3738 - . DOM 135 ž 1.11.60 3780 -. 0563 - 9733 -. 0574 3780 .0377 .9358 - 2336 - 399 2386.4 .3010 -.1656 -.1788 -.3186 -.1403 <u>......</u> -.1633 -. 1617 1.19.4 .3010 .0100 . 1858 .2510 -.2848 -.2546 -.3561 - 4178 9 -.0373 2608 2703 -.0126 .2040 -.4715 -.6534 -1.2287 BE++.1-ت لا ي -.02 -.034 -.056 -.156 -.215 -.215 -.4021 -.4021 -.5287 1.0460 -1.3585 595.63 1770 -.0611 -. 3900 1.0180 170 -.1056 -.1178 . 1660 -.*277*6 -.*2*216 3343 .4035 9990 -.0236 -.0278 -.0278 -.0959 -.1117 -.1249 .3660 . 1660 3038 ATT. O .1580 -.3510 -.3222 -.0576 -.1215 -.1890 -.2166 -.2140 5748 .9600 .59710 . 1580 DEPENDENT VARIABLE CP DEFENDENT VARIABLE CP -.26573 -.2657 .0578 -.0361 -.1913 -.1922 -.2093 -.2229 .1120 .1587 .9210 .1120 .158 MACH -.2486 -.2658 -.2675 -.1073 .0700 -.2161 -.2805 -.0559 -.0156 .0902 .0700 .1379 0524 0689 0653 0675 0136 .8790 .0507 - 2082 - 2082 - 1320 - 1380 - 158 .0450 . 1581 .8210 . 1935 . 2248 . 2026 . 1534 .1339 .1398 .1513 .1398 .1144 0635 .0460 .3691 -.1061 -.1110 -.0283 .0268 .0851 .0230 .2346 .1664 .2028 .2020 .1765 2666 .7790 2733 3285 3107 3107 2182 2175 1525 . 6230 BETA 1 1:CABITER FUSELAGE SECTION OF DORBLITER FUSELAGE .0080 -.1728 -.103**2** .0427 3.88 .4232 .0370 . ແດຍກ . 7290 1.0474 -.0172 .67:7 B.047 -,0070 -,01%2 -,2369 -,1633 -. 69:3 1.052+ .6520 . ממממ 1.0:64 AL PHA CAL 141 035 g

ABULITED PRESSURE DATA - DAINE (AMES 11-073-1)
DATE 10 FEB 78

			5740					Q Z		570	14.34	.1726						
								4.8340						••	_	•		
			. 4970	0633						.4970	.1352	.1013	1549 1586 2450	1182	0847	0753		
(XEBBB2)			.3780	.0769				FRAZL		.3780	.0957	.0687	1715 1743 268!	.1812	0951	0836		
			.3010	1447				2386.4		.3010	.0669	.0261		2070 -	- 1729 -	1546 -		
			.2510	2832				•		.2510	±0.40.	0308	2957 3062 4231	4554	3327	2930		
			.2040	-1.5043	1.0460	2535 1859		595.63		.2040	.0431	0231	2274 3127	5799	-1.4991	-1.8347	1.0460	2408 1664
ORB FUSELAGE			.1770	·	1.0180	2917		* 59		.1770					. 1678 1678	•	1.3180	3729
			. 1660	.3064	0666.	11 0 0	2259	ø		.1660	.0536	.0275	- 1139 - 1252 - 0542	1775.	.3147	.2578	.999	
AMES 11-073(0A148) -146A/B/C	. 158	B.E CP	.1580		.9600	3322 2837 0484 1167	1897 2224 2178 2044	59710	S.E CP	.1580						. 4822	.9600	3100
		DEPENDENT VARIABLE	.1120	.0963	.9210	2450 2450 .0696 0386	1997 2097 2213 2289	MACH B	DEPENDENT VARIABLE	.1120		. 094. 94.		.0237		7450.	.9210	2380
		CEPENDE	.0700	.0469	.8790	1812 2527 .0723 0905	2457 2772 2816 1358	.156 MA	DEPENDEN	.0700	.1592	1524	. 0099 0099 0573	0541		0242	.8790	1316
			.0460	.0593	.8210	1503 1503 .1295 .1362	. 1808 . 2564 . 3590	#		.0460	9	Ç.Y.	. 0915 . 0620 . 0040	0327		0269	.8210	0793 0306
	BETA (1.	105	0230	.1153	.7750	0478 0445 0650 .0050	139: 1361 1446 1330	BETA (1)	IGE	. 0230	3988	2014.	. 2022. 1.180	.0422		0126	.7790	.010÷
		IR FUSELAG	cepo.	. 2 626	.7230	.0:73 2367 1602	0452 0097	38 S+.0	R FUSELAGE	.080	.7999		. 27 16			0660.	.7290	8480.
	= 8.047	1109BITER	0000.		.6520		1663 0765 0566 0550	= 12.0	1 JORBITER	.009	95.43					95. 38.	.6520	1362
	(+) WHATT	SECTION (81/A	PH1 180.000	X/LB	740,0000 900,0000 900,0000 900,0000	130.000 130.000 150.000 165.000	ALPHA (5)	SECTION (X/LB	PH!	40.000	25.000 70.000 90.000	140.000 150.000		174.000 180.000	X/LB	PH1 . 000 . 000

TABULATED PRESSURE DATA - DAINB (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C ORB FUSELAGE

.9990 1.0180 1.0460 .3600 DEPENDENT VARIABLE CP .9210 .8790 .8210 BETA (1) = .7790 SECTION (1) CRBITER FUSELAGE .7290 12.046 .6550 ALPHA (5) . 877E

-.2779 -.1906 -.2302 -.2240 .0697 -.0230 -.0953 -.2010 -.2229 -.2397 -.2398 .0511 -.0239 -.1044 -.2524 -.2938 -.2944 -.1446 . 1922 . 1245 . 1563 .20**81** .3580 .4700 .3949 -.1136 -.0377 .0429 .0631 .0948 .1231 -.3248 -.0886 -.0805 -.0158 -.4874 -.3496 -.2193 1.1889. 1.0883. 7H1 70.000 96.000 1105.000 1110.000 1135.000 1135.000 1135.000 1135.000 1135.000

(XEBBBS)